FIG. 1A

T TAT 	ÁGT 	605 CTG	TCT	TAC	614 CCA	ATG	AGG	623 CGA		TAC			AAG	641 TTG	CTA	AAC	650 TGG
Ť																	
	R	K	Q	F	G	Ĺ	L	S	F	F	F	A	V	L	H	A	<u>I</u>
ACA	AGA	551 AAG	CAG	TTT 			CTC			TTT			GTA	587 CTG		GCA	596 ATT
Н	N	G	T	K	Y	K	K	F	P	Н	W	L	D	K	W	M	L.
CAT	AAT													533 AAG			
T	L	L	A	L	V	Y	L	P	G	V	I	A	A	I	V	Q	L
ACT	CTC	443 TTG	GCA	TTG	452 GTT	TAC	CTG			GTG		GCA		479 ATT	GTC	CAA	488 CTT
F	Y	K	1	P	I		v	I	N	ĸ	v	L	P	М	V	s	I
ТТТ	TAT	389 AAA	ATT	CCA			GTC							425 ATG	GTT	TCC	434 ATC
<u>Y</u>	T	L_	L	R	 Е	v	I	Н	P		A	т	s	Н	Q	Q	Y
TAC	ACT	335, CTT		AGG		GTA		353 CAC		TTA	362 GCA		TCC	371 CAT		CAA	380 TAT
Q	W	Н	L	P	I	ĸ	I	A	A	I	I	A	s	L	T	F	L
CAG	TGG	281 CAC	TTG	CCA			ATA			ATT		GCA		317 CTG		TTT	
 А	D	- - -	F	D	С	P	s	 Е		Q	Н	- Т	Q	 E	L	 F	P
GCT	GAT	227 GAA	ттт	GAC	236 TGC	CCT	TCA		СТТ		254 CAC		CAG	263 GAA	CTC	ттт	272 CCA
E	Т	S	M	L	K	R	P	٧	L	L	Н	L	Н	Q	Т	Α	Н
GAG	ACC	173 AGC	ATG	CTA	182 AAA		CCT		CTT		200 CAT		CAC	209 CAA	ACA	GCC	218 CAT
<u></u>	К	 P	R	R	N		 Е	 Е	D	D	Y		Н		D	т	 G
ATG	AAG	119 CCT	AGG	AGA	128 AAT		GAA		GAC		146 TAT		CAT	155 AAG	GAC	ACG	164 GGA
			 м	 E	 S	 R	 K	D		 T	 N	 Q	 E	 E		W	 K
ATA	GAA	65 TTA		GAA			AAA				-		GAA	101 GAA		TGG	110 AAA
GAG	ACT	11 CAC	GGT	CAA	20 GCT	AAG	GCG			GGG		CTG	AAG	47 CCA	TAC	TAT	56 TTT

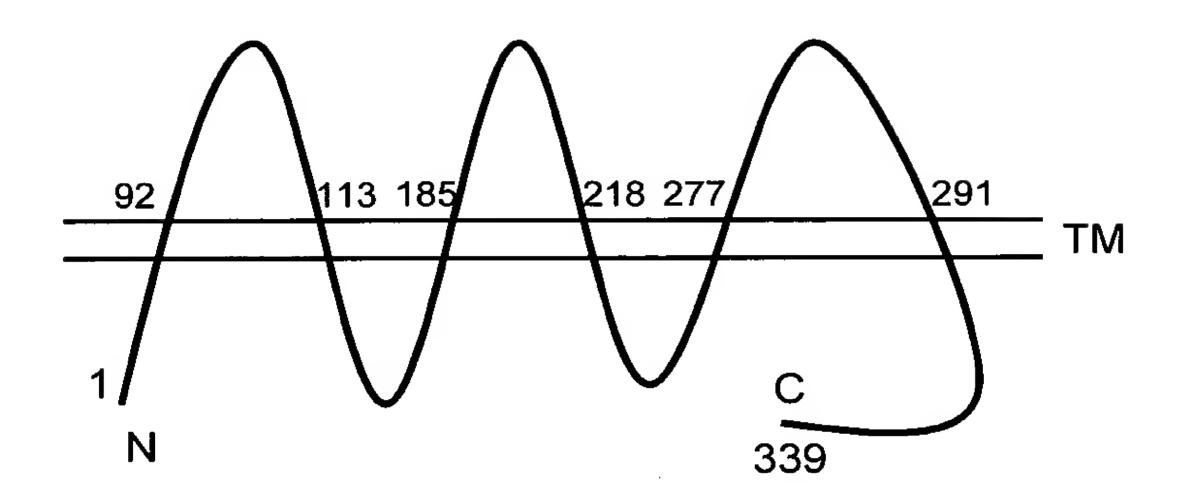
GCA	TAT	659 CAA	CAG	GTC	668 CAA	CAA	AAT	677 AAA	GAA	GAT	686 GCC	TGG	ATT	695 GAG	CAT	GAT	704 GTT
 А	Υ	Q	Q	v	Q	Q	N		 E	D	- А	 W	 I	 E	,	D	v
TGG	AGA	713 ATG	GAG	ATT	722 TAT	GTG	TCT	731 CTG	GGA	ATT	740 GTG	GGA	TTG	749 GCA	ATA	CTG	758 GCT
 W	 R	 М	 E	I	Y	v	s	L	G	I	v	G			I	L	
		7.67			776			705			704			002			
CTG	TTG	767 GCT	GTG	ACA	776 TCT	ATT	CCA	785 TCT	GTG	AGT	794 GAC	TCT	TTG	803 ACA	TGG	AGA	812 GAA
 L		 A		 T	 \$		 P	 S	 V	 S	 D	 S	 L	 T		 R	 E
<u></u>			v						_	J		٥	2		••	• •	
$ ext{TTT}$	CAC	821 TAT	ATT	CAG	830 AGC	AAG	CTA	839 GGA	ATT	GTT	848 TCC	CTT	CTA	857 CTG	GGC	ACA	866 ATA
F	Н	Y	1	<u>Q</u>	<u>s</u>	K	L	G	<u> </u>	V		L	L	L	G	T	<u> </u>
CAC	GCA	875 TTG	ATT	TTT	884 GCC	TGG	AAT	893 AAG	TGG	ATA	902 GAT	ATA	AAA	911 CAA	TTT	GTA	920 TGG
н	 A	L	I	 F		w	N	ĸ	w	I	D		K	Q	 F	v	w
TAT	ACA	929 CCT	CCA	ACT	938 TTT	AТG	ATA	947 GCT	GTT	TTC	956 CTT	CCA	ATT	965 GTT	GTC	CTG	974 ATA
 Y	 Т	- Р	P	- -	 F	<u>M</u>	I.	A	v	F	L_	P	I	v	v	L	 <u></u>
TTT																	
	AAA	983 AGC	ATA	CTA	992 TTC	CTG		TGC	TTG		L010 AAG	AAG		CTG	AAG	TTA	L028 AGA
 F	AAA K	-	ATA I	CTA L		CTG L			TTG L			AAG K			AAG K		
<u>F</u>	к	AGC s	ATA I		TTC F		CCA P	TGC C		AGG R	AAG K		ATA I	CTG L	-	TTA 	AGA R
	K	AGC s L037	 I		TTC F		CCA P	TGC c L055	 <u>L</u>	AGG R	AAG K L064	 K	ATA I	CTG L L073	- K	TTA 	AGA R L082
<u> </u>	K	AGC s L037	 I		TTC F		CCA P	TGC c L055	 <u>L</u>	AGG R	AAG K L064	 K	ATA I	CTG L L073	- K	ATT I	AGA R L082
CAT	GGT G	AGC S L037 TGG W	GAA E	GAC D	TTC F 1046 GTC V	 L ACC T	CCA P AAA K	TGC C LO55 ATT I	AAC N	AGG R AAA K	AAG K LO64 ACT T	K GAG E	ATA I ATA I	CTG L L 1073 TGT C	TCC	ATT I CAG Q	AGA R LO82 TTG L
CAT H	GGT G	AGC S L037 TGG W	GAA E	GAC D	TTC F 1046 GTC V	ACC	CCA P AAA K	TGC C L055 ATT I	AAC N	AGG R AAA K	AAG K LO64 ACT T L118	K GAG E	ATA I ATA I I	CTG L 1073 TGT C	TCC	ATT I CAG Q	AGA R 1082 TTG L 136
CAT H TAG	GGT G AAT	AGC S L037 TGG W L091 TAC	GAA E TGT	GAC D TTA	TTC F 1046 GTC V 1100 CAC	ACC T ACA	CCA P AAA K TTT	TGC C LO55 ATT I L109 TTG	AAC N TTC	AGG R AAA K AAT	AAG K LO64 ACT T L118 ATT	GAG E GAT	ATA I ATA I ATA I	CTG L 1073 TGT C 127 TTT	TCC S TAT	ATT I CAG Q CAC	AGA R 1082 TTG L 136 CAA
CAT H	GGT G AAT N	AGC S L037 TGG W L091 TAC Y	GAA E TGT C	GAC D TTA	TTC F 1046 GTC V 1100 CAC H	ACC T ACA T	CCA P AAA K TTT F	TGC C LO55 ATT I LO9 TTG L	AAC N TTC F	AGG R AAA AAA K AAT N	AAG K LO64 ACT T L118 ATT I	GAG E GAT D	ATA I ATA I ATA I	CTG L L 1073 TGT C 127 TTT F	TCC S TAT Y	ATT I CAG Q CAC H	AGA R 1082 TTG L 136
CAT H TAG	GGT G AAT N	AGC S L037 TGG W L091 TAC Y	GAA E TGT C	GAC D TTA	TTC F 1046 GTC V 1100 CAC H	ACC T ACA T	CCA P AAA K TTT	TGC C 1055 ATT I 109 TTG L	AAC N TTC F	AGG R AAA K AAT N	AAG K 1064 ACT T 118 ATT I	GAG E GAT D	ATA I ATA I ATA I ATA I	CTG L 073 TGT C 127 TTT F	TCC S TAT Y	ATT I CAG Q CAC H	AGA R 1082 TTG L 136 CAA Q 190
CAT H TAG	GGT G AAT N	AGC S L037 TGG W L091 TAC Y	GAA E TGT C	GAC D TTA	TTC F 1046 GTC V 1100 CAC H	ACC T ACA T	CCA P AAA K TTT	TGC C 1055 ATT I 109 TTG L	AAC N TTC F	AGG R AAA K AAT N	AAG K 1064 ACT T 118 ATT I	GAG E GAT D	ATA I ATA I ATA I ATA I	CTG L 073 TGT C 127 TTT F	TCC S TAT Y	ATT I CAG Q CAC H	AGA R 1082 TTG L 136 CAA Q 190

AAA AA 3'

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FIG. 1B

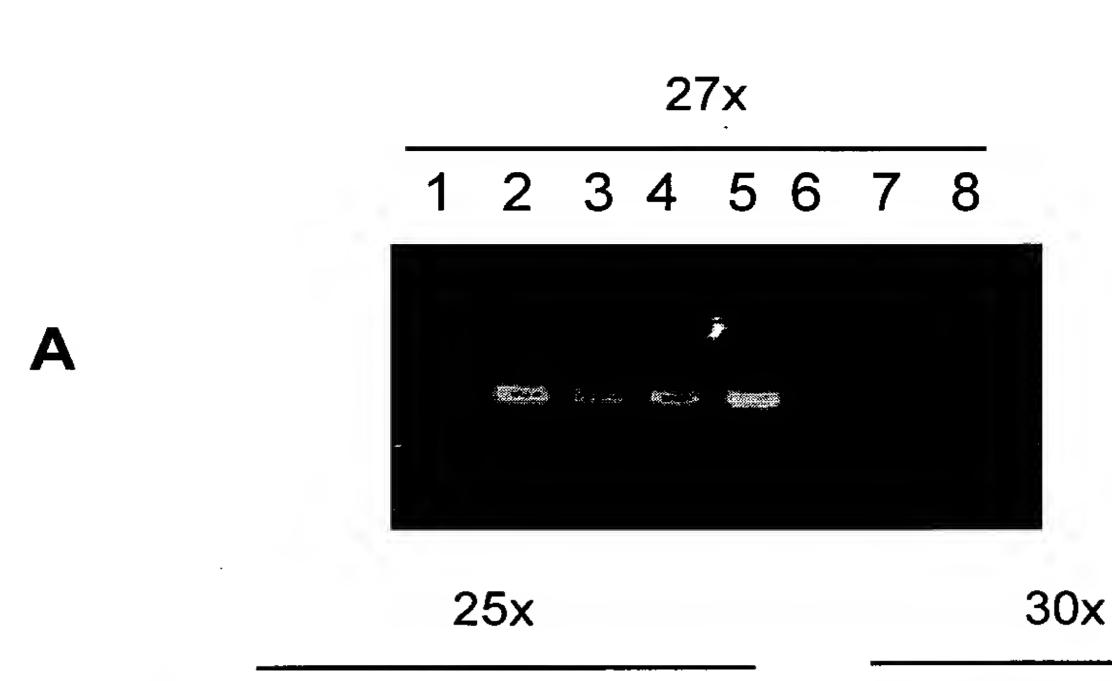
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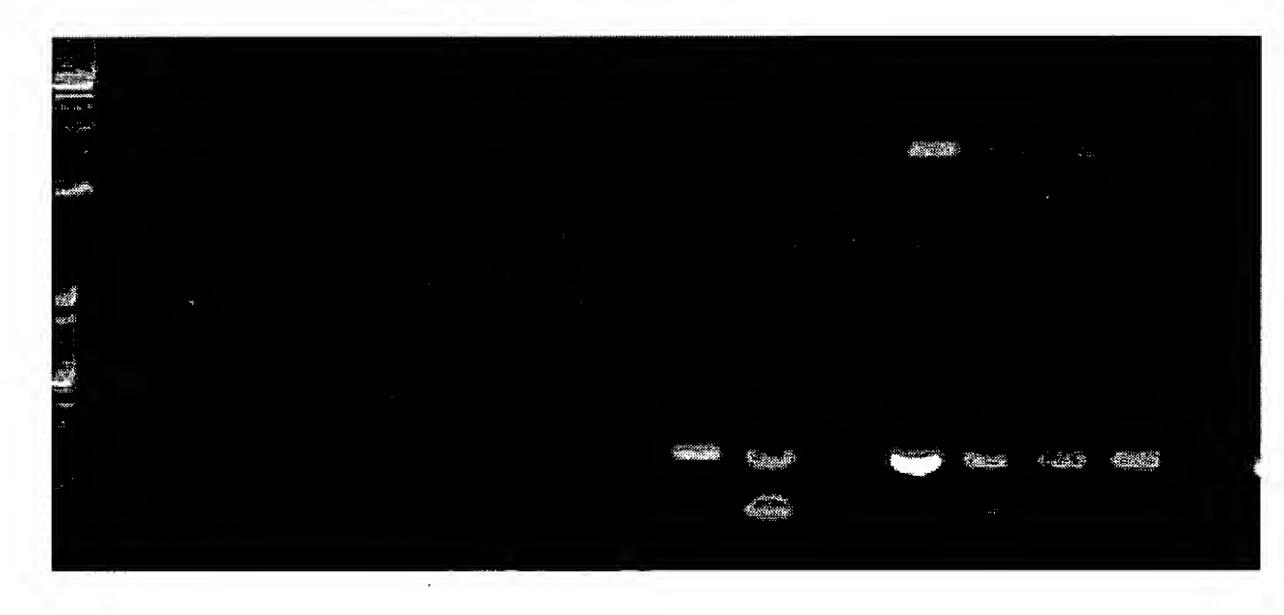
Intracellular

FIG. 1C

FIG. 2



1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8



Panels:

A

- 1. Brain
- 2. Prostate
- 3. LAPC-4 AD
- 4. LAPC-4 AI
- 5. LAPC-9 AD
- 6. HeLa
- 7. Murine cDNA
- 8. Neg. control

В

- 1. Brain
- 2. Heart
- 3. Kidney
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

C

- 1. Colon
- 2. Ovary
- 3. Leukocytes ~
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus

FIG.3A

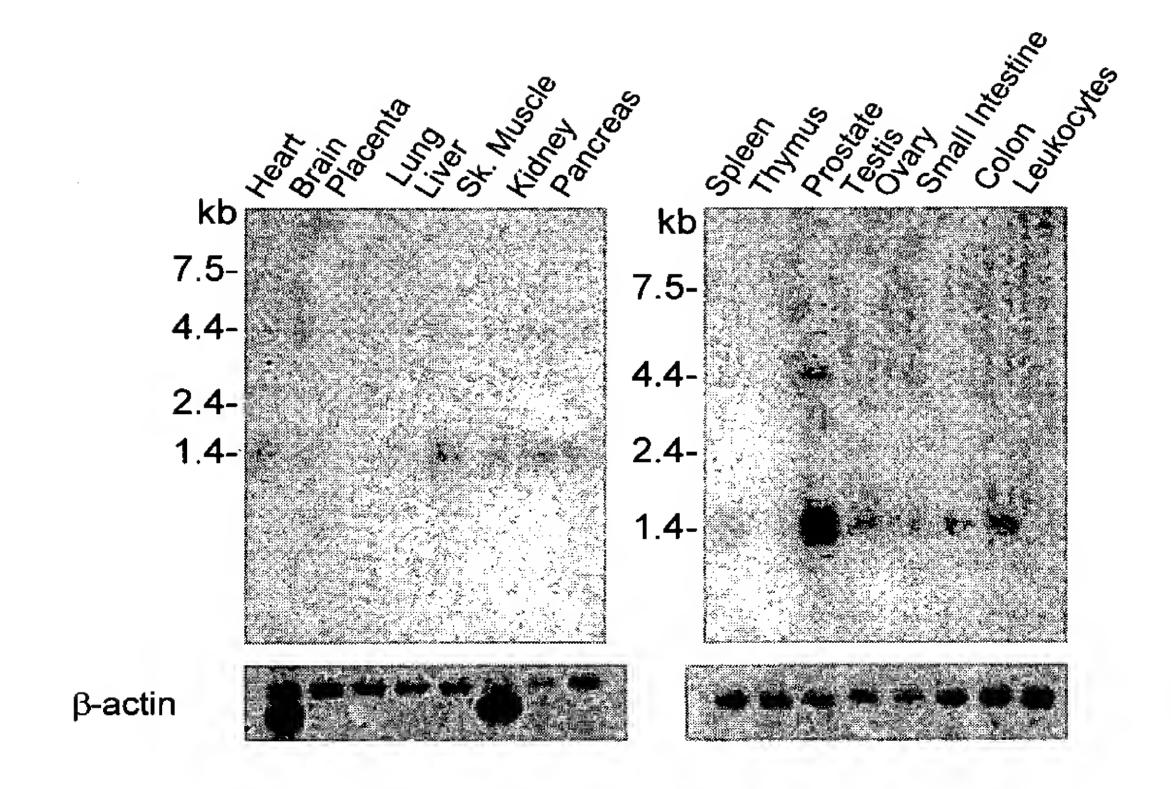
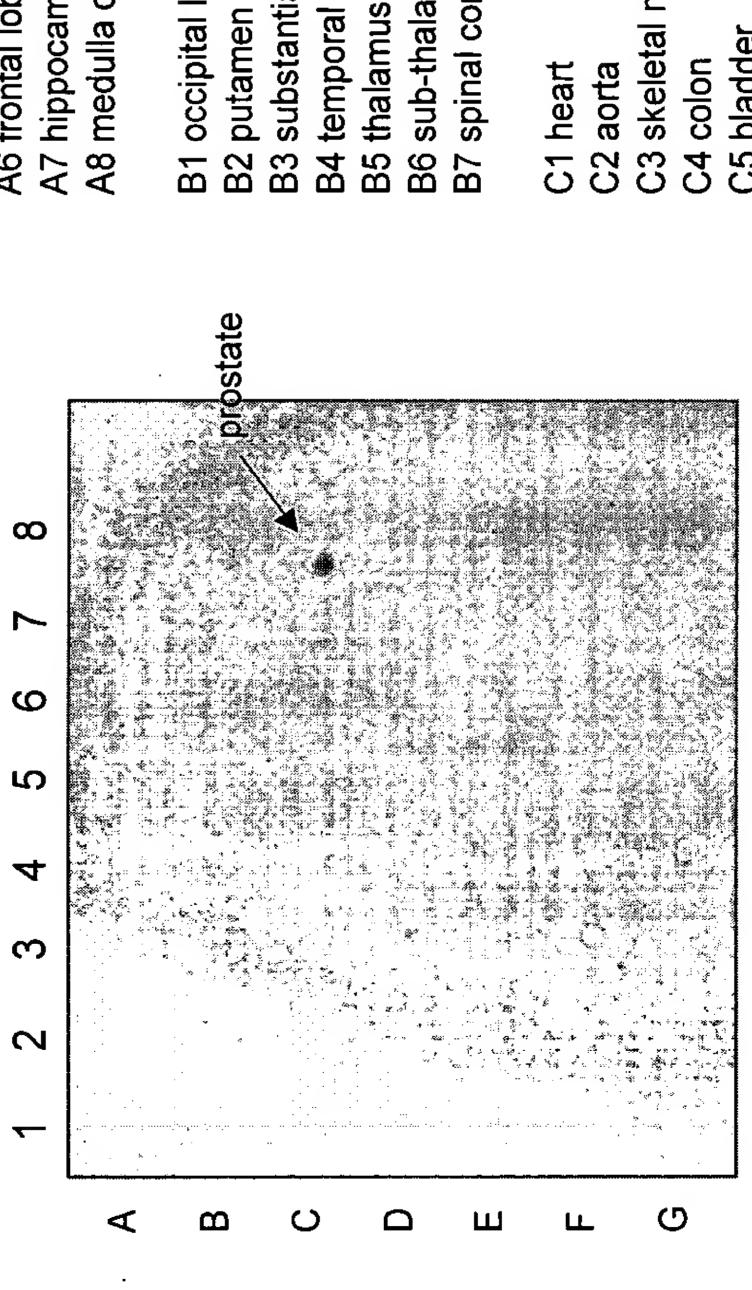


FIG. 3B



peripheral leukocytes D8 mammary gland small intestine pituitary gland salivary gland adrenal gland bone marrow D6 thyroid gland E7 lymph node G3 fetal kidney G2 fetal heart G1 fetal brain pancreas appendix F4 placenta F3 trachea thymus spleen E1 kidney D2 ovary D1 testis E2 liver F2 lung **D**5 **D**4 **D7 E**5 **E**3 **E**4 **E**6 sub-thalamic nucleus A8 medulla oblongata A3 caudate nucleus substantia nigra skeletal muscle cerebral cortex temporal lobe A7 hippocampus B1 occipital lobe A6 frontal lobe A4 cerebellum spinal cord A2 amygdala thalamus C7 prostate stomach C5 bladder C6 uterus A1 brain A5

G6 fetal thymus

G7 fetal lung

G5 fetal spleen

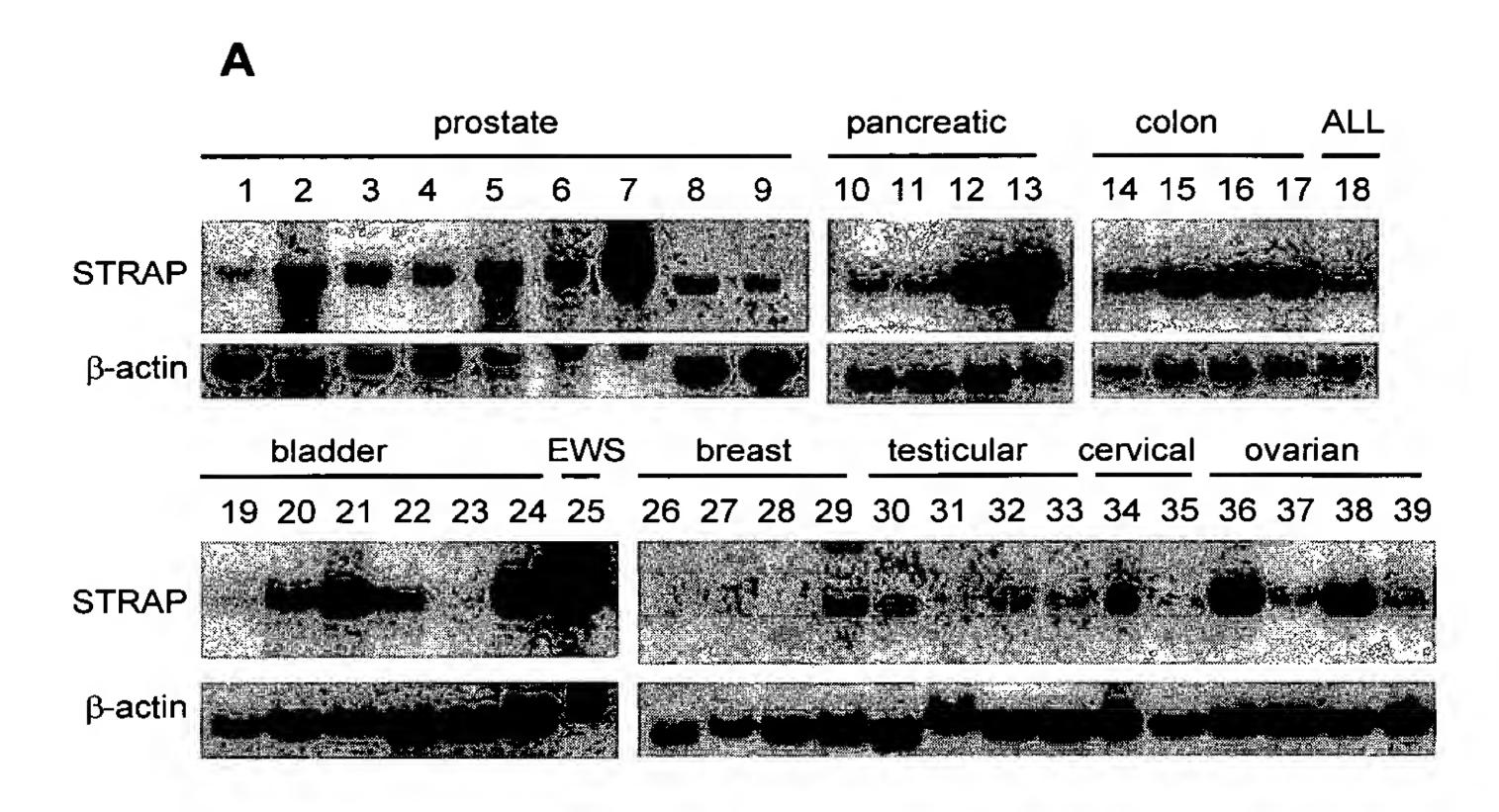
G4 fetal liver

FIG. 4

ATACTATTTTATAGAATTAATGGAAAGCAGAAAAGACATCACAAAACCAAGAAGAACTTTGGAAAAATGAAGCCTAGG AGAAATTTAGAAGAAGACGATTATTTGCATAAGGACACGGGAGAGACCAGCATGCTAAAAAAGACCTGTGCTTTTTGC GTGGCACTTGCCAATTAAAATAGCTGCTATTATAGCATCTCTGACTTTTCTTTACACTCTTCTGAGGGAAGTAATT CACCCCTTAGCAACTTCCCATCAACAATATTTTTATAAAATTCCAATCCTGGTCATCAACAAAGTCTTGCCAATGG TTTCCATCACTCTCTTGGCATTGGTTTACCTGCCAGGTGTGATAGCAGCAATTGTCCAACTTCATAATGGAACCAA GTATAAGAAGTTTCCACATTGGTTGGATAAGTGGATGTTAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTTT GCTGTACTGCATGCAATTTATAGTCTGTCTTACCCAATGAGGCGATCCTACAGATACAAGTTGCTAAACTGGGCAT ATCAACAGGTCCAACAAAATAAAGAAGATGCCTGGATTGAGCATGATGTTTGGAGAATGGAGATTTATGTGTCTCT **AGAGAATTTCACTATATTCAG**GTAAATAATATATAAAATAACCCTAAGAGGTAAATCTTCTTTTTGTGTTTTATGAT ATAGAATATGTTGACTTTACCCCATAAAAAATAACAAATGTTTTTCAACAGCAAAGATCTTATACTTGTTCCAATT ${\tt CTCTGTTGCCCATGCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTGCGCCTCCTGGGTTCAGGCGATTC}$ TCTTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCATCACCATGTCCAGCTAATTTTTTGTATTTTTAGTA GAGACAGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGATCTCCTGACCTCAAATGATCCGCCCACCTCGGCCTCCC AAAGTGCTGGGATGACAGTTGTGAGCCACCACACTCAGCCTGCTCTTTCTAATATTTGAAACTTGTTAGACAATTT TGTCACCTGAATTTAGTAATGCCTTTTATGTTACACAACTTAGCACTTTCCAGAAACAAAAACTCTCTCCTTGAAA TAATAGAGTTTTTATCTACCAAAGATATGCTAGTGTCTCATTTCAAAGGCTGCTTTTTTCCAGCTTACATTTTATAT ACTTACTCACTTGAAGTTTCTAAATATTCTTGTAATTTTTAAAACTATCTCAGATTTACTGAGGTTTATCTTCTGGT GGTAGATTATCCATAAGAAGAGTGATGTGCCAGAATCACTCTGGGATCCTTGTCTGACAAGATTCAAAGGACTAAA TTTAATTCAGTCATGAACACTGCCAATTACCGTTTATGGGTAGACATCTTTGGAAATTTCCACAAGGTCAGACATT CGCAACTATCCCTTCTACATGTCCACACGTATACTCCAACACTTTATTAGGCATCTGATTAGTTTTGGAAAGTATGC CTCCATCTGAATTAGTCCAGTGTGGCTTAGAGTTGGTACAACATTCTCACAGAATTTCCTAATTTTTGTAGGTTCAG CCTGATAACCACTGGAGTTCTTTGGTCCTCATTAAATAGCTTTCTTCACACATTGCTCTGCCTGTTACACATATGA TGAACACTGCTTTTTAGACTTCATTAGGAATTTAGGACTGCATCTTGACAACTGAGCCTATTCTACTATATGTACA

ATACCTAGCCCATAATAGGTATACAATACACATTTGGTAAAACTAATTTTCAACCAATGACATGTATTTTCAACT AGTAACCTAGAAATGTTTCACTTAAAATCTGAGAACTGGTTACACTACAAGTTACCTTGGAGATTCATATATGAAA ACGCAAACTTAGCTATTTGATTGTATTCACTGGGACTTAAGAATGCGCCTGAATAATTGTGAGTTCGATTTGTTCT GGCAGGCTAATGACCATTTCCAGTAAAGTGAATAGAGGTCAGAAGTCGTATAAAAGAGGTGTTGTCAGAACACCGT TGAGATTACATAGGTGAACAACTATTTTTAAGCAACTTTATTTGTGTAGTGACAAAGCATCCCAATGCAGGCTGAA ATGTTTCATCACATCTCTGGATCTCTCTATTTTGTGCAGACATTGAAAAAATTGTTCATATTATTTCCATGTTATC CATTAGTCGCCTTCACAACTGATAAAGATCACTGAAGTCAAATTGATTTTTGCTATAATCTTCAATCTACCTATAT TTCACTTAGACAGCTTGGAGACAAGAAATTACCCAAAAGTAAGGTGAGGAGGATAGGCAAAAAAGAGCAGAAAAGATG TGAATGGACATTGTTGAGAAATGTGATAGGAAAACAATCATAGATAAAGGATTTCCAAGCAACAGAGCATATCCAG CCTGCCATGCTTGAGGAAGAAGATACTGAAGATTAGACATGGTTGGGAAGACGTCACCAAAAATTAACAAAACTGAG **ATATGTTCCCAGTTGTAG**AATTACTGTTTACACACATTTTTGTTCAATATTGATATATTTTATCACCAACATTTCA

FIG. 5



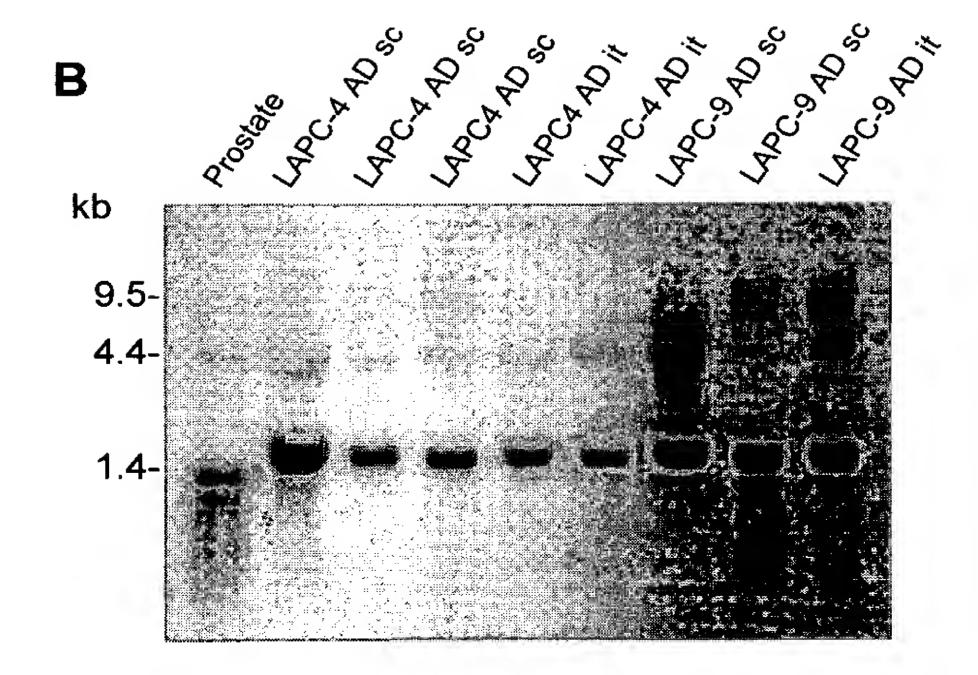
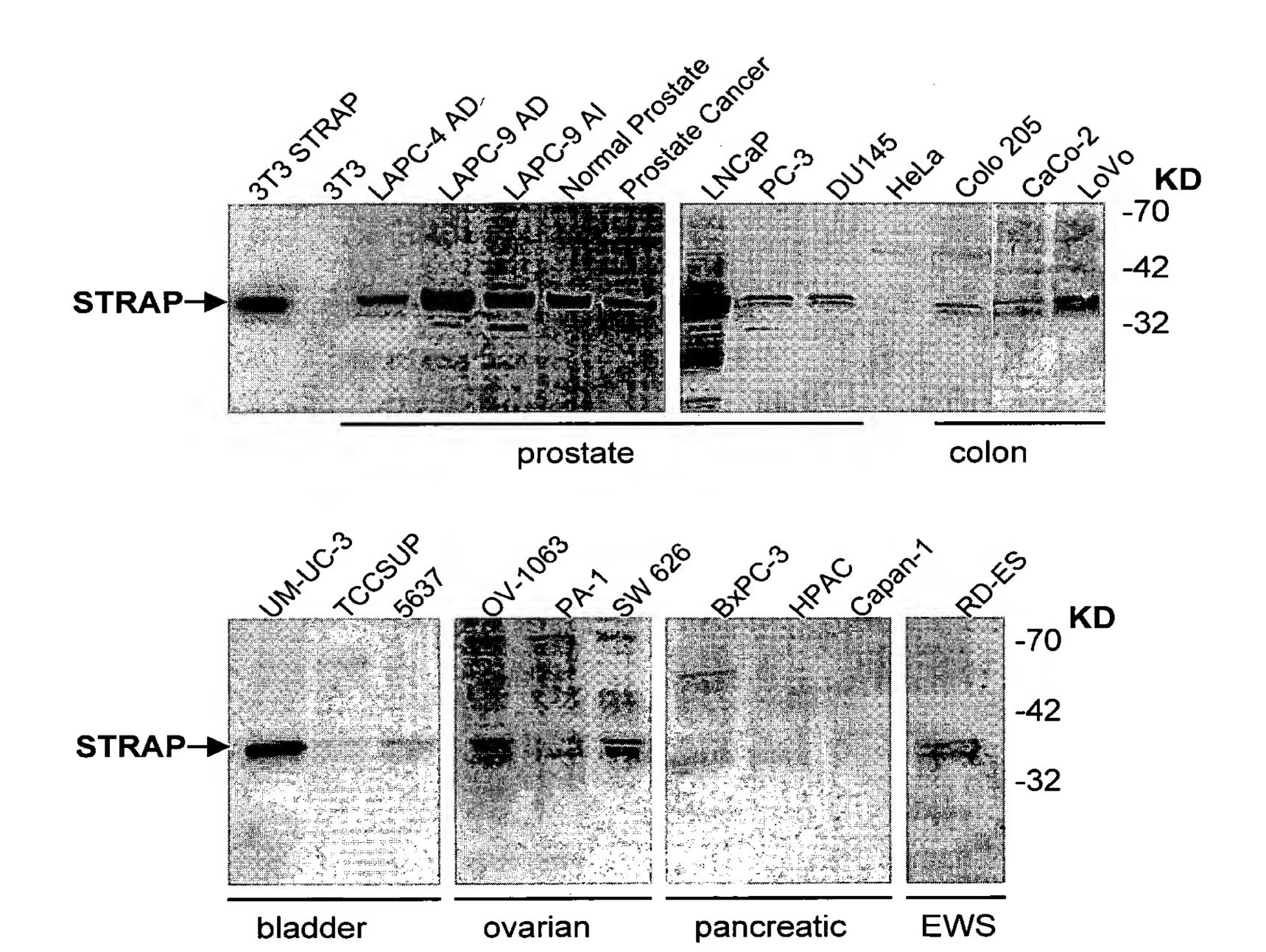
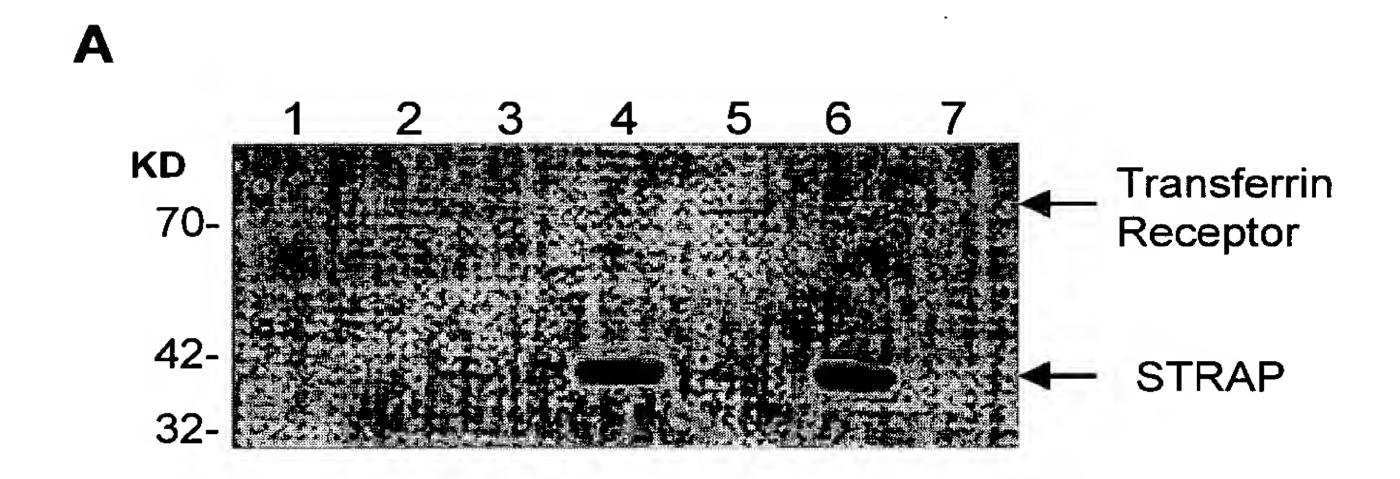


FIG.6



FG. 7



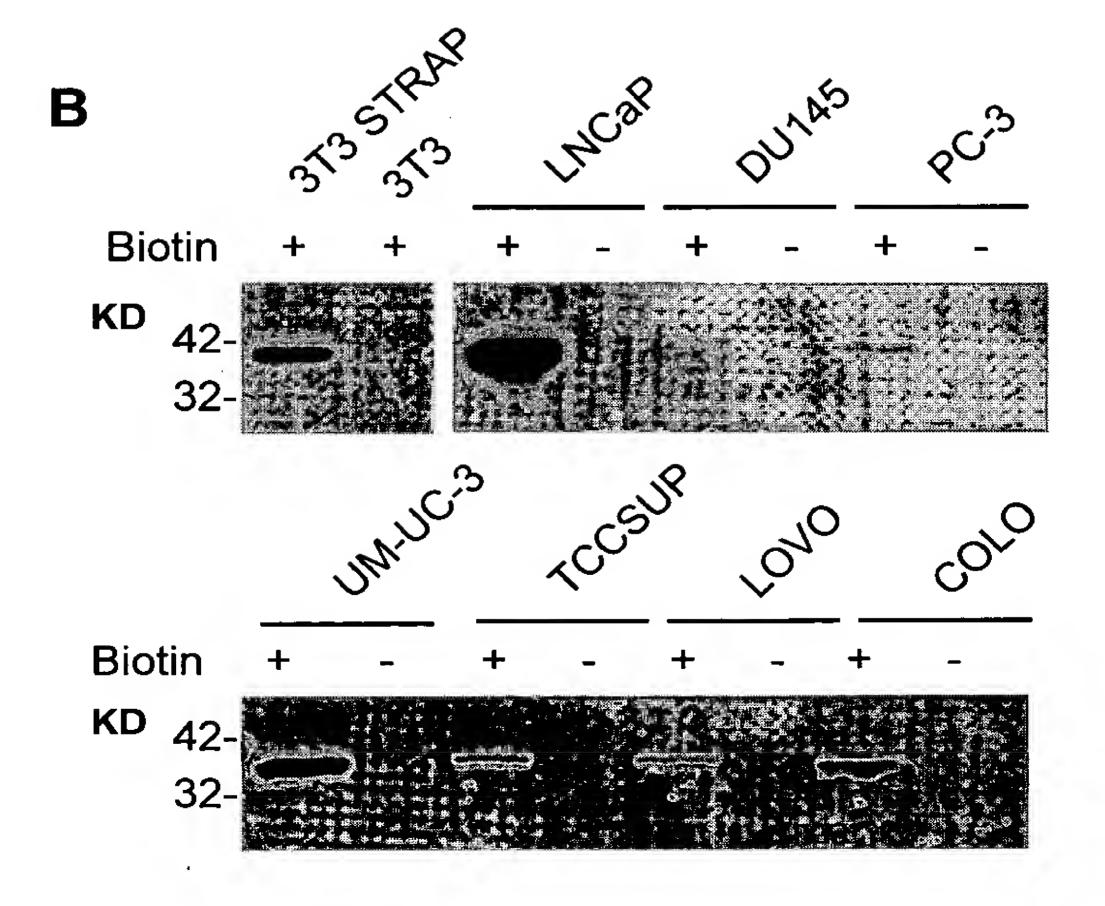


FIG.8

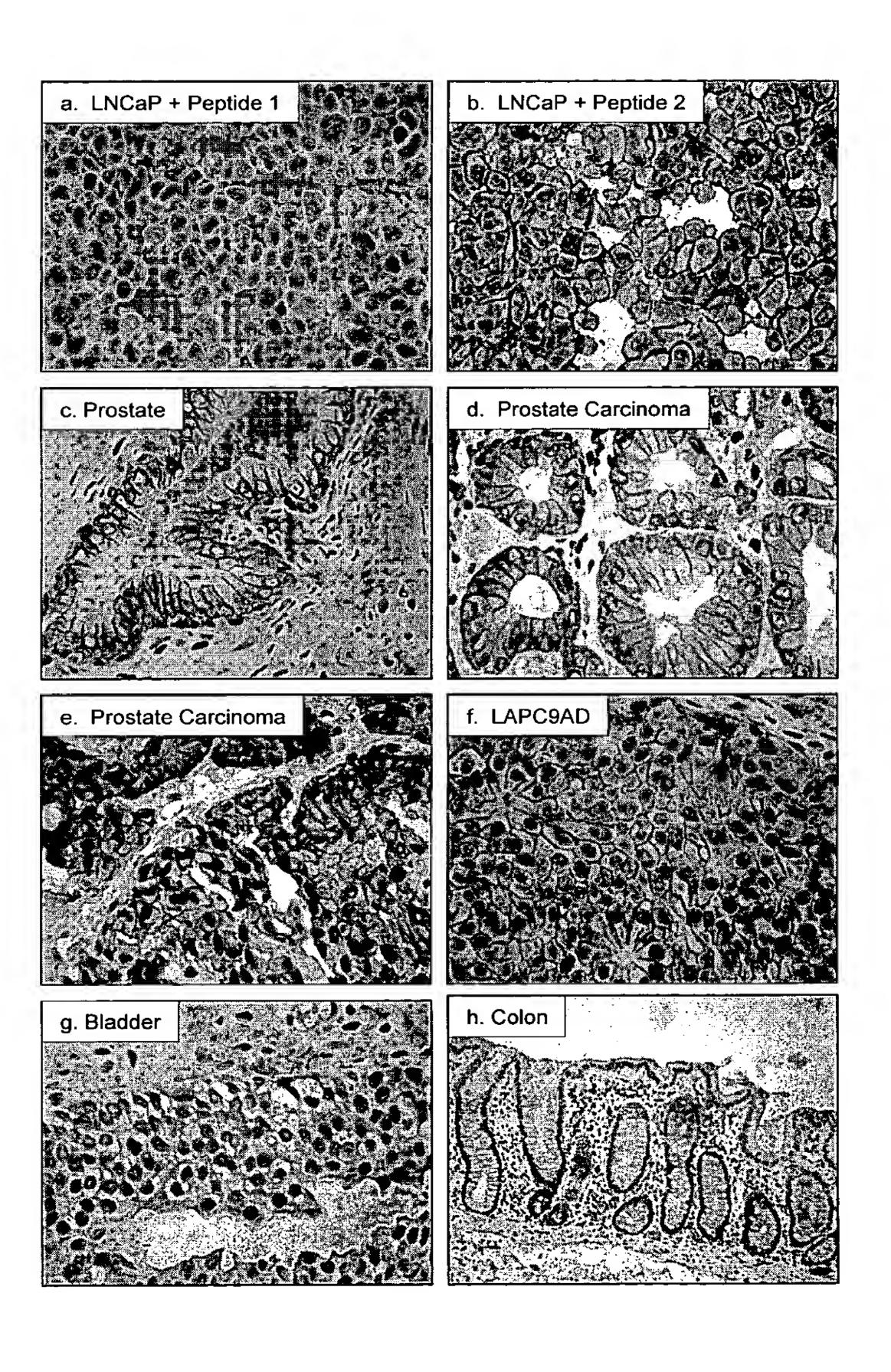


FIG. 9

5 '	GGA	CGC	10 GTG	GGC	GGA	19 CGC		GGT	28 TCC		GGC	37 CCT	CGG	CGC	46 CAC	AAG	CTG	55 TCC
			 64			 73			 82			 91			100			 109
	GGG	CAC	GCA	GCC	CCT	AGC	GGC	GCG	TCG	CTG	CCA	AGC	CGG	CCT	CCG	CGC	GCC	TCC
	CTC	CTT	118 CCT	TCT	CCC	127 CTG	GCT	GTT	136 CGC	GAT	CCA	145 GCT	TGG	GTA	154 GGC	GGG	GAA	163 GCA
	GCT	GGA	172 GTG	CGA	CCG	181 CCA	CGG	CAG	190 CCA	ccc	TGC	199 AAC	CGC	CAG	208 TCG	GAG	GTG	217 CAG
	TCC	GTA	226 GGC	CCT	GGC	235 CCC	CGG	GTG	244 GGC	CCT	TGG	253 GGA	GTC	GGC	262 GCC	GCT	CCC	271 GAG
	GAG	CTG	280 CAA	GGC	TCG	289 CCC	CTG	ccc	298 GGC	GTG	GAG	307 GGC	GCG	GGG	316 GGC	GCG	GAG	325 GAT
	ATT	 CTT	334 GGT	GAT	 CTT	343 GGA	AGT	GTC	352 CGT	ATC	ATG	361 G AA	TCA	ATC	370 TCT	ATG	ATG	379 GGA
								-				 E	 S	 I	 S	 М	 М	 G
	AGC	CCT	388 AAG	AGC	СТТ	397 AGT	GAA	ACT	406 TGT	тта	CCT	415 AAT	GGC	АТА	424 AAT	GGT	ATC	433 AAA
	 S	 Р	- К	s		 S	 E	 Т	C	L	P	N	G	I	N	G	ī	K
	GAT	GCA	442 AGG	AAG	GTC	451 ACT	GTA	GGT	460 GTG	ATT	GGA	469 AGT	GGA	GAT	478 TTT	GCC	AAA	487 TCC
	D	 A	R	К	v	т	v	G	v		G	s	G	D	F	- -	K	S
			496			505			514									
	TTG	ACC		CGA	CTT	505 ATT	AGA	TGC		TAT	CAT	523 GTG	GTC	ATA	532 GGA	AGT	AGA	541 AAT
	TTG L	ACC T		CGA R	CTT L		AGA R	TGC C		TAT Y	CAT H		GTC V	ATA I		AGT S	AGA R	
•			ATT I 550	 R		ATT I 559	 R		GGC G 568	 Y		GTG V 577	 V	 I	GGA G 586		- R	AAT N 595
•		 T	ATT I 550	 R		ATT I 559	 R		GGC G 568	 Y		GTG V 577	 V	 I	GGA G 586	 S	- R	AAT N 595
•	L CCT P	T AAG	ATT I 550 TTT F	R GCT A	TCT	ATT I 559 GAA E	 R TTT F	C TTT F	GGC G 568 CCT P	Y CAT H	H GTG V	GTG V 577 GTA V	V GAT D	I GTC V	GGA G 586 ACT T.	S CAT H	R CAT H	AAT N 595 GAA E
•	L CCT P	T AAG K	ATT I 550 TTT F	R GCT A	TCT	ATT I 559 GAA E	 R TTT F	C TTT F	GGC G 568 CCT P	Y CAT H TTT	H GTG V	GTG V 577 GTA V	V GAT D	I GTC V	GGA G 586 ACT T.	S CAT H	R CAT H	AAT N 595 GAA E
•	L CCT P GAT D	T AAG K GCT	ATT I 550 TTT F 604 CTC L	R GCT A ACA T	TCT S AAA K	ATT I 559 GAA E 613 ACA T	R TTT F AAT N	TTT F ATA I	GGC G 568 CCT P 622 ATA I	Y CAT H TTT F	H GTG V GTT V	GTG V 577 GTA V 631 GCT A	V GAT D ATA	GTC V CAC H	GGA G 586 ACT T. 640 AGA R	CAT H GAA E	R CAT H CAT H	AAT N 595 GAA E 649 TAT Y 703
•	L CCT P GAT D	TAAGAGK	ATT I 550 TTT F 604 CTC L	R GCT A ACA T	TCT S AAA K	ATT I 559 GAA E 613 ACA T	R TTT F AAT N	TTT F ATA I	GGC G 568 CCT P 622 ATA I	Y CAT H TTT F	H GTG V GTT V	GTG V 577 GTA V 631 GCT A	V GAT D ATA	GTC V CAC H	GGA G 586 ACT T. 640 AGA R	CAT H GAA E	R CAT H CAT H	AAT N 595 GAA E 649 TAT Y 703
•	CCT P GAT D ACC T	TAAGATAAAGATAAAAAAAAAAAAAAAAAAAAAAAAAA	ATT I 550 TTT F 604 CTC L 658 CTG L 712	R GCT A ACA T TGG W	TCT S AAA K GAC D	ATT I 559 GAA E 613 ACA T 667 CTG L	R TTT F AAT N AGA R	TTT F ATA I CAT H	GGC G 568 CCT P 622 ATA I 676 CTG L 730	Y CAT H TTT F CTT L	H GTG V GTT V GTG V	GTG V 577 GTA V 631 GCT A 685 GGT G	GAT D ATA I AAA K	GTC V CAC H ATC	GGA G 586 ACT T. 640 AGA R 694 CTG L	CAT H GAA E ATT I	CAT H CAT H CAT D	AAT N 595 GAA E 649 TAT Y 703 GTG V 757

775 784 793 802 766 TCA TTA TTC CCA GAT TCT TTG ATT GTC AAA GGA TTT AAT GTT GTC TCA GCT TGG S L F P D S L I V K G F N V V S A W 838 856 820 829 847 GCA CTT CAG TTA GGA CCT AAG GAT GCC AGC CGG CAG GTT TAT ATA TGC AGC AAC A L Q L G P K D A S R Q V Y I C S N 892 883 901 910 919 874 AAT ATT CAA GCG CGA CAA CAG GTT ATT GAA CTT GCC CGC CAG TTG AAT TTC ATT Q V I E L A R Q L N I Q A R Q 937 946 955 964 928 CCC ATT GAC TTG GGA TCC TTA TCA TCA GCC AGA GAG ATT GAA AAT TTA CCC CTA PIDLGSLSSAREIENLP**L** 1000 1009 1018 982 991 CGA CTC TTT ACT CTC TGG AGA GGG CCA GTG GTG GTA GCT ATA AGC TTG GCC ACA L F T L W R G P V V A I S L A T 1036 1045 1054 1063 1072 1081 TTT TTT TTC CTT TAT TCC TTT GTC AGA GAT GTG ATT CAT CCA TAT GCT AGA AAC FFFLYSFVRDVIHPYARN 1099 1108 1117 1126 1135 1090 CAA CAG AGT GAC TTT TAC AAA ATT CCT ATA GAG ATT GTG AAT AAA ACC TTA CCT Q S D F Y K I P I E I V N K T L P 1153 1162 1171 1180 1189 1144 ATA GTT GCC ATT ACT TTG CTC TCC CTA GTA TAC CTT GCA GGT CTT CTG GCA GCT T L L S L V Y L A G L L A A 1207 1216 1225 1198 1234 1243 GCT TAT CAA CTT TAT TAC GGC ACC AAG TAT AGG AGA TTT CCA CCT TGG TTG GAA AYOLYYGTKYRRPPWLE 1252 1261 1270 1279 1288 1297 ACC TGG TTA CAG TGT AGA AAA CAG CTT GGA TTA CTA AGT TTT TTC TTC GCT ATG T W L Q C R K **Q L G L L S F F A M** 1306 1315 1324 1333 1342 1351 GTC CAT GTT GCC TAC AGC CTC TGC TTA CCG ATG AGA AGG TCA GAG AGA TAT TTG V H V A Y S L C L P M R R S E R Y L 1360 1369 1378 1387 1396 TTT CTC AAC ATG GCT TAT CAG CAG GTT CAT GCA AAT ATT GAA AAC TCT TGG AAT F L N M A Y Q Q V H A N I E N S W N 1414 1423 1432 1441 1450 1459 GAG GAA GAA GTT TGG AGA ATT GAA ATG TAT ATC TCC TTT GGC ATA ATG AGC CTT E E V W R I E M Y I S F G I M S L E

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					•												
GGC		1468 CTT	TCC		1477 CTG	GCA		1486 ACT			1495 CCT			1504 AGC			1513 TTA
G	L	L	s	L	L	A	v	T	s	I	P	s	V	s	N	A	L
AAC 		1522 AGA		TTC		TTT			TCT			GGA		1558 GTC			1567 CTC
N	W	R	E	F	S	F	I	Q	S	T	L	G	Y		A	L_	<u>_</u> L
ATA 		1576 ACT	TTC		1585 GTT 	TTA			GGA		1603 AAA 			1612 TTT 			1621 GAG
<u>I</u>	S	T	F	H	V	<u>L</u>	I	Y	G	W	K	R	A	F	E	E	E
TAC		1630 AGA	TTT		1639 ACA	CCA			TTT		1657 CTT			L666 GTT			1675 TCA
Y	Y	R	F	Y	T	P	P	N	F	V	L	<u>A</u>	· L	v	L	P	s
ATT		1684 ATT	CTG		L693 CTT	TTG			TGC					1720 TGA			1729 ACT
I	V	I	L	D	L	L	Q	L	C	R	Y	P	D	*			
GGA		1738 TGT	CTT		L747 ATT	GAC			TCT -,					L774 GCC			1783 ATT
CCT		L792 CTG	TCC		L801 CAG	TTA		1810 GTA	CAT		ACT	GAG		TGG	CCA		1837 AGA
TGA		L846 CTC	CTC		L855 GGA	AGG		1864 CAT			1873 TTT	TTC		CCT	TCA		1891 TGC
TGC		L900 GAT	TGT		L909 TAT	AAC			CCT		1927 AGC			L936 CAG	AGG		L945 AAA
		 L954			 L963			1972			 L981			L990			 L999
GCC 	ACA	CCC	AAA 	GAG	TAA	GGC	AGA	TTA	GAG	ACC	AGA	AAG	ACC	TTG	ACT	ACT	TCC
CTA		2008 CCA	CTG			CTG								2044 GGG			2053 ACA
TGA		2062 GAA	AAT		2071 TTC	ттт			TTC					2098 TGA	TAC		2107 TTA
ACA		 2116 TCT				AGA								2152 AAA			2161 AAA
		 2170		- - -				 2188						 206			2215
GGA 	TAA	TGT 		ATT	CAC	ATT	AAA 	ATT	GAT	TTT 	CCA	TTG	TCA	ATT 	AGT	TAT	ACT
CAT		2224 CCT				TTT								2260 TTG			2269 ATT
ATC						TAA								2314 TAA			2323 AAA
TAT	TGC		CAA		ACA		CAT	GTT		TAT	CAT	TCT	CAT	AGA	TCT	GCC	2377 TTA
	ACA	2386 TTT	AAA	TAA	2395 AAA	GTA	CTA	2404 TTT	AAT	GAT 2	2413 TTA	AAA	AAA	2422 AAA	AAA	2	
AAA 				AAA		AAA 	AA :	3 '									

FIG. 10A

1			GCGCGCACCG TTGGCGCTGG CGCGCGTGGC AACCGCGACC	
		000000000		, TOCOLLICOLL
<i>-</i> -			K T C I D A L	
61			AAAACTTGTA TAGATGCACT TTTTGAACAT ATCTACGTGA	
	GAACCIICGC GGAGAGGGAG	ICAATACCIC	ITITGAACAT ATCTACGIGA	AGGAGAA1 GA
	M N S S E K Q	E T V	C I F G T G D	F G R
121	ATGAATTCTT CAGAAAAGCA	AGAGACTGTA	TGTATTTTTG GAACTGGTGA	TTTTGGAAGA
	TACTTAAGAA GTCTTTTCGT	TCTCTGACAT	ACATAAAAAC CTTGACCACT	AAAACCTTCT
	S L G L K M L	O C G	Y S V V F G S	R N P
181			TATTCTGTTG TTTTTGGAAG	
	AGTGACCCTA ACTTTTACGA	GGTCACACCA	ATAAGACAAC AAAAACCTTC	AGCTTTGGG
247	~		E V L S Y S E	
241			GAAGTCTTGA GCTATTCAGA CTTCAGAACT CGATAAGTCT	
	GICITCIGGI GGGAIGACGG	GICACCACGI	CITCHGMCI CGAIMGICI	1001000110
	K S G I I I	A I H	R E H Y D F L	T E L
301			AGAGAGCATT ATGATTTCT	
	TTCAGACCGT AGTATTAGTA	TCGTTAGGTG	TCTCTCGTAA TACTAAAAGA	GTGTCTTAAT
	T E V L N G K	I L V	D I S N N L K	I N O
361			GACATCAGCA ACAACCTCAA	_
	TGACTCCAAG AGTTACCTTT	TTATAACCAT	CTGTAGTCGT TGTTGGAGTT	TTAGTTAGTT
401			H L V P G A H	
121			CATTTGGTGC CAGGAGCCCA GTAAACCACG GTCCTCGGGT	
	AIAGGICIIA GAIIACGICI	CAIGGAACGA	GIMACÇAÇO GICCICOGGI	OCACCATTT!
	A F N T I S A	W A L	Q S G A L D A	S R Q
181	·		CAGTCAGGAG CACTGGATGC	
	CGTAAATTGT GGTAGAGTCG	GACCCGAGAG	GTCAGTCCTC GTGACCTACG	TTCAGCCGTC
	V F V C G N D	S K A	K Q R V M D I	V R N
541			AAGCAAAGAG TGATGGATAT	
	CACAAACACA CACCTTTACT	GTCGTTTCGG	TTCGTTTCTC ACTACCTATA	ACAAGCATTA
		0 0 0	T NA 70 TO TO T	
501		—	L M A A K E I CTCATGGCAG CCAAAGAAAT	
301			GAGTACCGTC GGTTTCTTTA	
	~		P F Y L S A V	
561			CCCTTCTATT TGTCTGCTGT	
	GGGGACGTCG ATAAAGGTTA	CACCTCCAAG	GGGAAGATAA ACAGACGACA	CGACACACAG
	F L F F Y C V	I R D	V I Y P Y V Y	E K K
721			GTAATCTACC CTTATGTTTA	
	AAGAACAAAA AGATAACACA	ATATTCTCTG	CATTAGATGG GAATACAAAT	ACTTTTCTT

GATAATACAT TTCGTATGGC TATTTCCATT CCAAATCGTA TCTTTCCAAT AACAGCACTT CTATTATGTA AAGCATACCG ATAAAGGTAA GGTTTAGCAT AGAAAGGTTA TTGTCGTGAA L V Y L P G V I A A 841 ACACTGCTTG CTTTGGTTTA CCTCCCTGGT GTTATTGCTG CCATTCTACA ACTGTACCGA TGTGACGAAC GAAACCAAAT GGAGGGACCA CAATAACGAC GGTAAGATGT TGACATGGCT D WH GGCACAAAAT ACCGTCGATT CCCAGACTGG CTTGACCACT GGATGCTTTG CCGAAAGCAG CCGTGTTTTA TGGCAGCTAA GGGTCTGACC GAACTGGTGA CCTACGAAAC GGCTTTCGTC F A F A L G CTTGGCTTGG TAGCTCTGGG ATTTGCCTTC CTTCATGTCC TCTACACACT TGTGATTCCT GAACCGAACC ATCGAGACCC TAAACGGAAG GAAGTACAGG AGATGTGTGA ACACTAAGGA R L G V R W N L TV 1021 ATTCGATATT ATGTACGATG GAGATTGGGA AACTTAACCG TTACCCAGGC AATACTCAAG TAAGCTATAA TACATGCTAC CTCTAACCCT TTGAATTGGC AATGGGTCCG TTATGAGTTC 1081 AAGGAGAATC CATTTAGCAC CTCCTCAGCC TGGCTCAGTG ATTCATATGT GGCTTTGGGA TTCCTCTTAG GTAAATCGTG GAGGAGTCGG ACCGAGTCAC TAAGTATACA CCGAAACCCT V L L G ATACTTGGGT TTTTTCTGTT TGTACTCTTG GGAATCACTT CTTTGCCATC TGTTAGCAAT TATGAACCCA AAAAAGACAA ACATGAGAAC CCTTAGTGAA GAAACGGTAG ACAATCGTTA A V N W R E F R F V Q S K L 1201 GCAGTCAACT GGAGAGAGTT CCGATTTGTC CAGTCCAAAC TGGGTTATTT GACCCTGATC CGTCAGTTGA CCTCTCTCAA GGCTAAACAG GTCAGGTTTG ACCCAATAAA CTGGGACTAG LCTAHTLVYGGKRFLSP TTGTGTACAG CCCACACCCT GGTGTACGGT GGGAAGAGAT TCCTCAGCCC TTCAAATCTC AACACATGTC GGGTGTGGGA CCACATGCCA CCCTTCTCTA AGGAGTCGGG AAGTTTAGAG RWYL PAAYVL GLII PCT 1321 AGATGGTATC TTCCTGCAGC CTACGTGTTA GGGCTTATCA TTCCTTGCAC TGTGCTGGTG TCTACCATAG AAGGACGTCG GATGCACAAT CCCGAATAGT AAGGAACGTG ACACGACCAC IKFV LIM PCV DNTL TRI R Q G 1381 ATCAAGTTTG TCCTAATCAT GCCATGTGTA GACAACACCC TTACAAGGAT CCGCCAGGGC TAGTTCAAAC AGGATTAGTA CGGTACACAT CTGTTGTGGG AATGTTCCTA GGCGGTCCCG WERNSKH TGGGAAAGGA ACTCAAAACA CTAGAAAAAG CATTGAATGG AAAATCAATA TTTAAAACAA ACCCTTTCCT TGAGTTTTGT GATCTTTTTC GTAACTTACC TTTTAGTTAT AAATTTTGTT 1501 AGTTCAATTT AGCTGGATTT CTGAACTATG GTTTTGAATG TTTAAAGAAG AATGATGGGT TCAAGTTAAA TCGACCTAAA GACTTGATAC CAAAACTTAC AAATTTCTTC TTACTACCCA 1561 ACAGTTAGGA AAGTTTTTTT CTTACACCGT GACTGAGGGA AACATTGCTT GTCTTTGAGA

TGTCAATCCT TTCAAAAAA GAATGTGGCA CTGACTCCCT TTGTAACGAA CAGAAACTCT

TTAACTGACT GTATGACCTT CTCTTGTGGT AAAATAGAGT CCAATCACTT CTTAGTCACG

1621 AATTGACTGA CATACTGGAA GAGAACACCA TTTTATCTCA GGTTAGTGAA GAATCAGTGC

1681		CCCAGAGGCC GGGTCTCCGG		AGCCTTGTGG TCGGAACACC
1741		 TTGTTATGGG AACAATACCC		
1801		TCCTTCTCTG AGGAAGAGAC		GAAAGGAAAA CTTTCCTTTT
1861		 GATAAAGGCT CTATTTCCGA		
1921		GAGGTTTTTG CTCCAAAAAC		
1981		GTGAAATGAC CACTTTACTG		AATACAGATA TTATGTCTAT
2041		TTATAACACA AATATTGTGT	-	
2101		TCTATAGAGC AGATATCTCG		
2161		AAAATGGAGG TTTTACCTCC		
2221		 ATAAAAGTTC TATTTTCAAG	•	
2281		ATATTGTAAA TATAACATTT		
2341		AAATTTTATA TTTAAAATAT		
2401		AATAAGTAGC TTATTCATCG		
2461		 ATAGTCTGCA TATCAGACGT	•	
2521		GGGCAGAGAG CCCGTCTCTC		
2581		TGAAATTTAG ACTTTAAATC		
2641		TTCAGGGGGA AAGTCCCCCT		
2701		TTCCCACATA AAGGGTGTAT		
2761	·	AAGACCTTTT TTCTGGAAAA		

2821 TACATGACAT TATACAAAAA TGATTAAAAT ATATTAAAAC AACATCAACA ATCCAGGATA ATGTACTGTA ATATGTTTTT ACTAATTTTA TATAATTTTG TTGTAGTTGT TAGGTCCTAT 2881 TTTTTCTATA AAACTTTTTA AAAATAATTG TATCTATATA TTCAATTTTA CATCCTTTTT AAAAAGATAT TTTGAAAAAT TTTTATTAAC ATAGATATAT AAGTTAAAAT GTAGGAAAAA 2941 CAAAGGCTTT GTTTTTCTAA AGGCTTTGTT TTCCTTTTTA TTATTTTTTTT CTTTTTTATT GTTTCCGAAA CAAAAAGATT TCCGAAACAA AAGGAAAAAT AATAAAAAAA GAAAAAATAA 3001 TTTTTGAGAC AGTCTTGCTC TGTCGCTCAG GCTGGAGTGC AGTGGCACGA TCTCAGCTCA AAAAACTCTG TCAGAACGAG ACAGCGAGTC CGACCTCACG TCACCGTGCT AGAGTCGAGT 3061 CTGCAACCTC CTCCTCCCAG GTTCAAGTGA TTCTTGTTCA TCAGCCTCCC GAGTAGCTGG GACGTTGGAG GAGGAGGGTC CAAGTTCACT AAGAACAAGT AGTCGGAGGG CTCATCGACC 3121 GACTACAGGC ATGTGCCACT ATGCCCAGCT AATTTTTGTA CTTTTAGTAG AGACAGGGTT CTGATGTCCG TACACGGTGA TACGGGTCGA TTAAAAACAT GAAAATCATC TCTGTCCCAA 3181 TCACCACATT GGTCAGGCTG GTCTTGAAAT GCTGGCGTCA AGTGATCTGC CTGCCTCCGC AGTGGTGTAA CCAGTCCGAC CAGAACTTTA CGACCGCAGT TCACTAGACG GACGGAGGCG 3241 CTTACGTAAT ATATTTTCTT AATGGCTGCA TAATATCACA TCAAATAGGC ATTTTTCAAA GAATGCATTA TATAAAAGAA TTACCGACGT ATTATAGTGT AGTTTATCCG TAAAAAGTTT 3301 CCTCTTTCCT TATTAAACAT GTAGACTATA TCCATTTTTT ACTAAAATAA ATAACATTTC GGAGAAAGGA ATAATTTGTA CATCTGATAT AGGTAAAAAA TGATTTTATT TATTGTAAAG 3361 AGATAATATC TTTGCACTGA TAATGTTGCC AAGCCATTTC TAAAGTGACC TTATCAATTT TCTATTATAG AAACGTGACT ATTACAACGG TTCGGTAAAG ATTTCACTGG AATAGTTAAA 3421 AATTACCATT GGATGAGGGT GTTGCTTTCA TCGCACCATT GTAGATTGTC TTTTTTATTT TTAATGGTAA CCTACTCCCA CAACGAAAGT AGCGTGGTAA CATCTAACAG AAAAAATAAA 3481 CAATTTGCGT TTATTTATAA CTGGTTGCAA AGGTACACAG AACACACGCT CCTTCAACTT GTTAAACGCA AATAAATATT GACCAACGTT TCCATGTGTC TTGTGTGCGA GGAAGTTGAA 3541 ATCTTTGATA AACCCAAGCA AGGATACAAA AAGTTGGACG ACATTGAGTA GAGTCATGGT TAGAAACTAT TTGGGTTCGT TCCTATGTTT TTCAACCTGC TGTAACTCAT CTCAGTACCA 3601 ATACGGTGCT GACCCTACAG TATCAGTGGA AAAGATAAGG AAAATGTCAC TACTCACCTA TATGCCACGA CTGGGATGTC ATAGTCACCT TTTCTATTCC TTTTACAGTG ATGAGTGGAT TGTTATGCAA AACAGTTAGG TGTGCTGGGG CTGGATACTG CTCTTTTACT TGAGCATTGG 3661 ACAATACGTT TTGTCAATCC ACACGACCCC GACCTATGAC GAGAAAATGA ACTCGTAACC 3721 TTGATTAAAG TTTAGGTACC ATCCAGGCTG GTCTAGAGAA GTCTTTGGAG TTAACCATGC AACTAATTTC AAATCCATGG TAGGTCCGAC CAGATCTCTT CAGAAACCTC AATTGGTACG 3781 TCTTTTTGTT AAAGAAGAG GTAATGTGTT TATCCTGGCT CATAGTCCGT CACCGAAAAT AGAAAAACAA TTTCTTCTCT CATTACACAA ATAGGACCGA GTATCAGGCA GTGGCTTTTA 3841 AGAAAATGCC ATCCATAGGT AAAATGCTGA CCTATAGAAA AAAATGAACT CTACTTTTAT TCTTTTACGG TAGGTATCCA TTTTACGACT GGATATCTTT TTTTACTTGA GATGAAAATA 3901 AGCCTAGTAA AAATGCTCTA CCTGAGTAGT TAAAAGCAAT TCATGAAGCC TGAAGCTAAA TCGGATCATT TTTACGAGAT GGACTCATCA ATTTTCGTTA AGTACTTCGG ACTTCGATTT

3961				ACCTGACCTT TGGACTGGAA	
4021				CAAGTTCTCC GTTCAAGAGG	
4081	CCCACAACCT GGGTGTTGGA			ACCATATTAA TGGTATAATT	
4141				AGATGAAAAT TCTACTTTTA	
4201	GGCGAACTGT CCGCTTGACA	ATTCCTTTTA TAAGGAAAAT	ACAGATCCAA TGTCTAGGTT	ATTTAAAAAA TAAATTTTTT	AAAGTTAAAC TTTCAATTTG
4261		TACTGCTGAT ATGACGACTA		AAATTTTTAC TTTAAAAATG	
4321	TATTTTTGTA ATAAAAACAT			TTATAAATGT AATATTTACA	
4381		TAAAAATAAA ATTTTTATTT			

FIG. 10B

STEAP-2, AA508880 (NCI CGAP Pr6)

STEAP-2, 98P4B6 SSH fragment

TTTGCAGCTTTGCAGATACCCAGACTGAGCTGGAACTGGAATTTGTCTTCCTATTGACTCTACTTCTTTAAAAGCG GCTGCCCATTACATTCCTCAGCTGTCCTTGCAGTTAGGTGTACATGTGACTGAGTGTTGGCCAGTGAGATGAAGTC TCCTCAAAGGAAGGCAGCATGTGTCCTTTTT

STEAP-3, AI139607 (testis EST)

STEAP 4, R80991 (placental EST)

FIG. 11A

87 75 0	177 165 36 0	266 254 125 0	356 344 215 31
VVDWTHHEDMLTKTN GAEWLSYSEMAKKSG	ROVYICSMNIOARCO ROVFVCGNDSKAKOR EDDYLHKDTGETS	TELVINKTUPTVATTI	346 360 HANIENSWNEEEVWR ILKKENPFSTSSAWL QONKEDAWIEHDVWR WPXKSHLWVKEEVWR
61 IGSRNPKFASEFFPH FGSRNPOKTT-LLPS	151 165 VVSAWALOLGPKDAS TISAWALOSGALDAS QEELWKMK-PRRNLE	HELATSHQOYEVKIE	331 345 RSERYLFINMAYOOV YYVRWRECNLTVTOA RSYRYKLINWAYOOV AAXATTWSTWOSSRS
46 KSLTIRLIRGGYHW RSLGLKMLQGGYSW	136 150 LABLEPDSLIVKGEN LAHLVPGAHVVKAENMESRKDITN	226 240 TATEFERSFVRDVI LCVELFFYCVIRDVI IASLTEINTLIREVI	316 FAMVHVAYSICLPMR FAMTHYLYTLVIPIR FAVTHAIYTLVIPIR
ARKVINGVIGSODEA - KQEINCIFOTOPE	NNMRTNOYPESNAEY	RIFTLWRGPVVVAIS OLFPMWRFPFYLSAV ELFPOWHLPIKIAAI	301 315 TWLOGRKOLGIIUSER HWMLGRKOLGIIVALG KWMITRRORGIISER
TCIPNGINGIKD TCIDALPLTMNSSE-	106 120 DERHLEVGKTTIDVS EFTEVENGKTTVDIS	196 210 LGSLSSARETENLPI OGSLMAAKETEKYPL ADEFDCPSELQH-TQ	286 300 INVGTKVRRFPDWID INGTKVRRFPDWID
1 MESISMMGSPKSLSE MEK	91 105 Tellevalhrehvetsiw Tellenenenenenenenenenenenenenenenenenen	181 VIELAROINF-IPID VMDIVRNIGE-TPMD MLKRPVLIHIHOTAH	271 285 ISLVNYIPGULANAYO FALVYAPEGVIMATIO
2 STEAP2 3 STEAP3 4 STEAP1 5 STEAP4	2 STEAP2 3 STEAP3 4 STEAP1 5 STEAP4	2 STEAP2 3 STEAP3 4 STEAP1 5 STEAP4	2 STEAP2 3 STEAP3 4 STEAP1 5 STEAP4

445 434 305 120		
450 -SIVILD CIVILVIK IVVILER -CVRSSW		
436 FVLGI I IP FMIAVERE		
435 YYREXTEPN NIRWYLPPN OFVWYTEPN RYKETTEPN RYKETTEPN		
421 RAFEEE KWIDIK RAFEES		
420 FHVLINGWK AHTINEGK IHALIFAWN LHTINGWT		
406 ATLICE SELEGE AXVEST		
405 FSFIOSTLGYV FREVOSKLGYL FHYIOSKLGIV FSFVOSSEGFV	7 U	4 60 1
391 NWR TWR	481	CSOL
390 WINSTERSVSNAU WINSTERSVSDSI WINSTERSTANSI	480	OGWERNSKH
STEAN STEAN STEAN STEEN	466	RHGW
375 SIMSLGIL SINGEFILE SINGEFILE SWIAEGTE	S I	VDNTLTR LRKKILK PCIOPX-
361 IEMYISE SDSWAR METWSR	451 110¶/0	FVILIME SINFLIP AKARFXI
STEAP2 STEAP3 STEAP1 STEAP4	2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
02 W 44 RV	C	л ш 4 г

FIG. 11B

STRAP-1	67	LFP	QWI	ILP	IKI	A	II	AS	LT	FL	rY.	[L]	LR.	ΕV	ΙH	lPI	A.	rs:	НQ	QY	F.	YK:	ΙP	ΊĮ	JV:	EN.	KV	LP	MV	SI	TL	L
STRAP-2	208	LFT	LWE	RGP	$\nabla\nabla\nabla$	[A	SL	ΑŢ	FF	FL	YS	F	VR:	DV	ΙH	ΙPΥ	'AI	RN	QQ	SD	F	YK:	ΙP	ΊĮ	E I S	/N	KT	LP	ΙV	ΆI	TL	L
		**	*	*		*		*		* *	*		*	*	* *	*	*		*		* *	* * 7	* *	*		*	*	* *	*	*	**	*
STRAP-1	127	ALV	YLI	?GV	IA	IV	/QL	ΗN	IGT	KY	KF	(FI	PH	WL	DK	WM	1L?	rr.	ΚQ	FG	L	LSI	FE	'F'	\V	LH	ΑI	YS	LS	YP	M R	R
STRAP-2	268	SLV	YL	\GL	LAP	ΔY	/QL	ΥY	'GT	ΚY	RF	۱Ŧ۶	PP	WL	ΕT	'WI	يQر	CR.	ΚQ	LG	L	LSI	F	'FZ	M	ЛH	VA	YS	LÇ	LP	M R	R
		* *	* *	*	**	r	**		**	**	•	* >	*	**		*		*	* *	*	* 7	* * 	k *	* 1	r	*		* *	*	*	**	*
STRAP-1	187	SYR	YKI	LLN	WAY	7Q Q	QVΩ	QN	IKE	DA	WI	Εŀ	HD'	VW	RM	ΙΕΙ	Y	VS:	LG	IV	'GI	LA:	ΓL	AI	L	١٧٧	TS	ΙP	sv	SD	SL	Т
STRAP-2	328	SER	YLI	LN	MAY	ZQQ	ĮVΗ	AN	1IE	NS	WN.	1EI	ΞE'	VW	RI	EM	Y:	IS:	FG	IM	S]	LGI	LL	SI	L	١V	TS	ΙP	sv	SN	AL:	N
		* *			* *				* *		*					*						År.							* *		*	
STRAP-1	247	WRE	FHY	ΊQ	SKI	.GJ	vs	LI	LG	TI	HA	YT.	ΙF	AW	NK	wı	D.	IK	QF	VW	Y.	rp)	PΤ	FN	1 12	\V	FL	ΡI	vv	LI		
STRAP-2	388	WRE	FSE	TIO	STI	GY	TVA	LI	LIS	TF	'H'	7 L;	IY	GW	KR	AE	E	Œ.	ΥY	RF	'Y'.	[P]	PΝ	F٦	7 L2	AL'	VL	PS	IV	ΊL	ŀ	
	-	***	*	* *	* *	*	*	* *		*	*	* >	*	*							* 7	* * ;	k	*	7	k.	*	*	*			

FIG. 11C

STEAP1	66	ELFPQWHLPIKIAAIIASLTFLYTLLREVIHPLATSHQQYFYKIPILVINKVLPMVSITL
STEAP3	195	QLFPMWRFPFYLSAVLCVFLFFYCVIRDVIYPYVYEKKDNTFRMAISIPNRIFPITALTL *** * * * * * * * * * * * * * * * * *
STEAP1	126	LALVYLPGVIAAIVQLHNGTKYKKFPHWLDKWMLTRKQFGLLSFFFAVLHAIYSLSYPMR
STEAP3	255	LALVYLPGVIAAILQLYRGTKYRRFPDWLDHWMLCRKQLGLVALGFAFLHVLYTLVIPIR
STEAP1	186	RSYRYKLLNWAYQQVQQNKEDAWIEHDVWRMEIYVSLGIVGLAILALLAVTSIPSVSDSL
STEAP3	315	YYVRWRLGNLTVTQAILKKENPFSTSSAWLSDSYVALGILGFFLFVLLGITSLPSVSNAV * * * * * * * * * * * * * * * * * * *
STEAP1	246	TWREFHYIQSKLGIVSLLLGTIHALIFAWNKWIDIKQFVWYTPPTFMIAVFLPIVVLIFK
STEAP3	375	NWREFRFVQSKLGYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAAYVLGLIIPCTVLVIK **** ***** * * * * * * * * * * * * * *
STEAP1	306	SILFLPCLRKKILKIRHGWEDVTK
CTTT ND2	125	FVI.TMPCVDNTI.TRTROGWERNSK

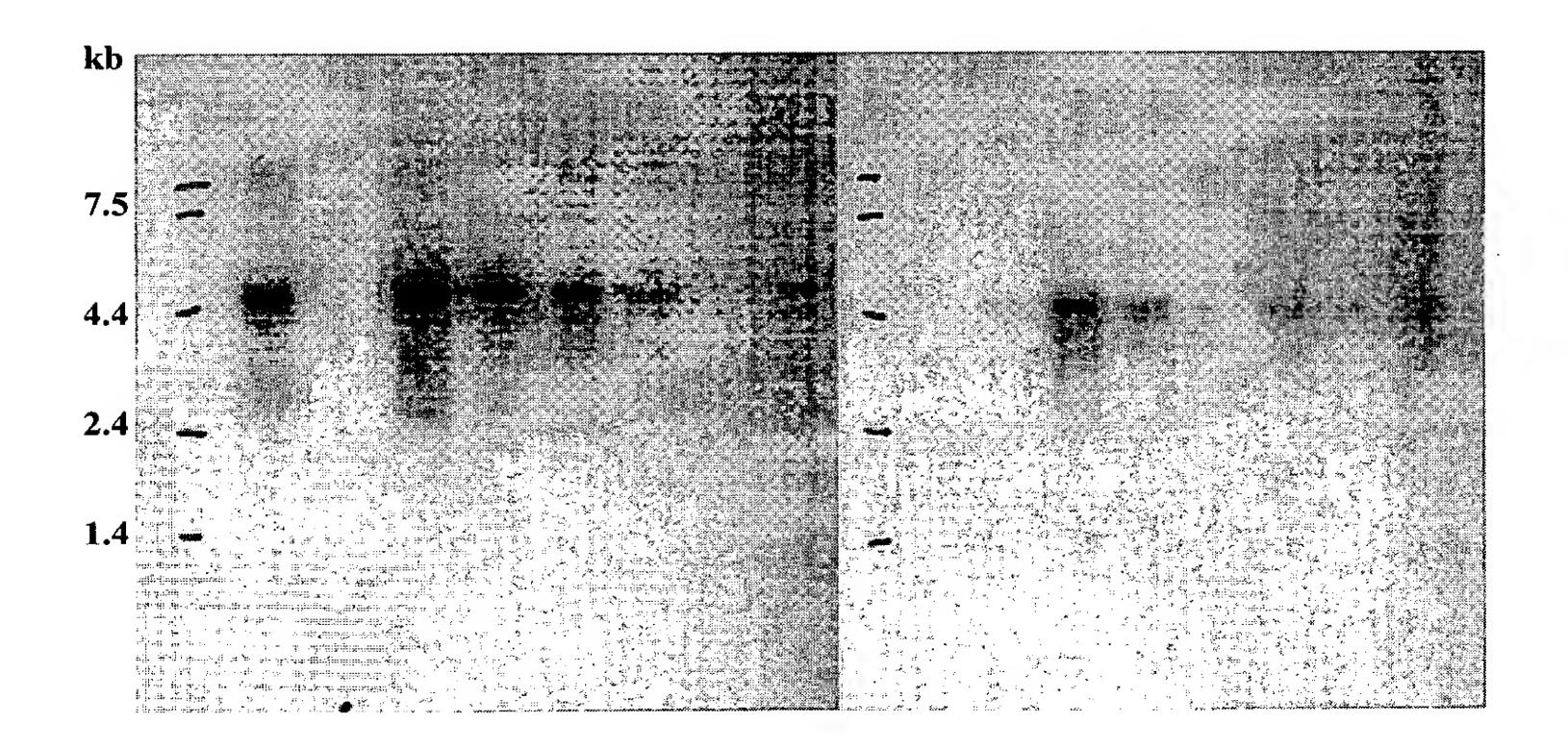
FIG. 11D

STEAP2	29	RKVTVGVIGSGDFAKSLTIRLIRCGYHVVIGSRNPKFASEFFPHVVDVTHHEDALTKTNI
STEAP3	18	KQETVCIFGTGDFGRSLGLKMLQCGYSVVFGSRNPQ-KTTLLPSGAEVLSYSEAAKKSGI ** *** * * * * * * * * * * * * * * * *
STEAP2	89	IFVAIHREHYTSLWDLRHLLVGKILIDVSNNMRINQYPESNAEYLASLFPDSLIVKGFNV
STEAP3	77	IIIAIHREHYDFLTELTEVLNGKILVDISNNLKINQYPESNAEYLAHLVPGAHVVKAFNT * ****** * * * **** * ********* * * *
STEAP2	149	VSAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIPIDLGSLSSAREIENLPLRL
STEAP3	137	ISAWALQSGALDASRQVFVCGNDSKAKQRVMDIVRNLGLTPMDQGSLMAAKEIEKYPLQL ****** * ****** * * * * * * * * * * *
STEAP2	209	FTLWRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPIEIVNKTLPIVAITLLS
STEAP3	197	FPMWRFPFYLSAVLCVFLFFYCVIRDVIYPYVYEKKDNTFRMAISIPNRIFPITALTLLA * ** *
STEAP2	269	LVYLAGLLAAAYQLYYGTKYRRFPPWLETWLQCRKQLGLLSFFFAMVHVAYSLCLPMRRS
STEAP3	257	LVYLPGVIAAILQLYRGTKYRRFPDWLDHWMLCRKQLGLVALGFAFLHVLYTLVIPIRYY **** * ** *** *** *** ** * * * * * *
STEAP2	329	ERYLFLNMAYQQVHANIENSWNEEEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNW
STEAP3	317	VRWRLGNLTVTQAILKKENPFSTSSAWLSDSYVALGILGFFLFVLLGITSLPSVSNAVNW * * * * ****************************
STEAP2	389	REFSFIQSTLGYVALLISTFHVLIYGWKRAFEEEYYRFYTPPNFVLALVLPSIVIL
STEAP3	377	REFRFVQSKLGYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAAYVLGLIIPCTVLV

FIG. 12A

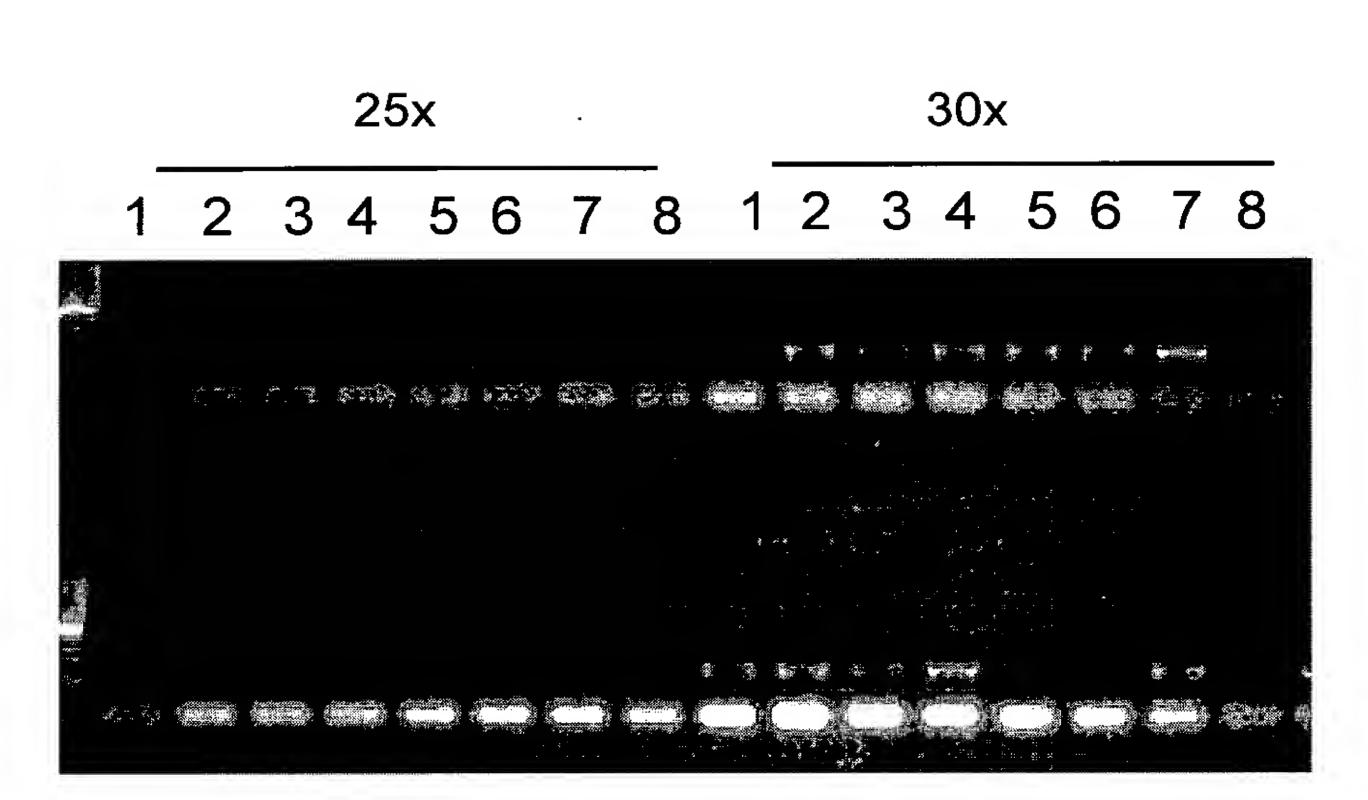
Panel 1.
Heart
Brain
Placenta
Lung
Liver
Skeletal Muscle
Kidney
Pancreas

Panel 2.
Spleen
Thymus
Prostate
Testes
Ovary
Small Intestine
Colon
White Blood Cell



В

FIG. 12B



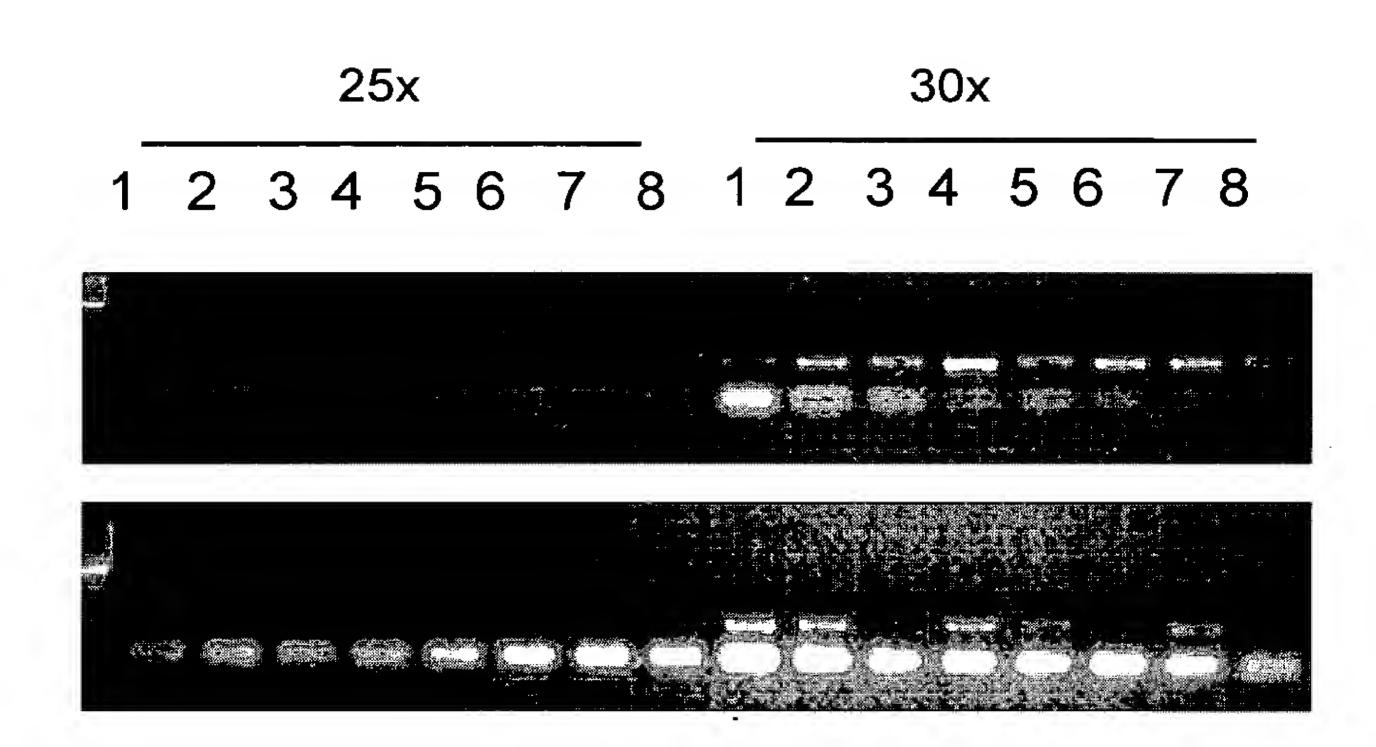
Α

- 1. Brain
- 2. Heart
- 3. Kidney
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

B

- 1. Colon
- 2. Ovary
- 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus

FIG. 13



Α

- 1. Brain
- 2. Heart
- 3. Kidney
- 4. Liver
- 5. Lung
- 6. Pancreas
- 7. Placenta
- 8. Skeletal Muscle

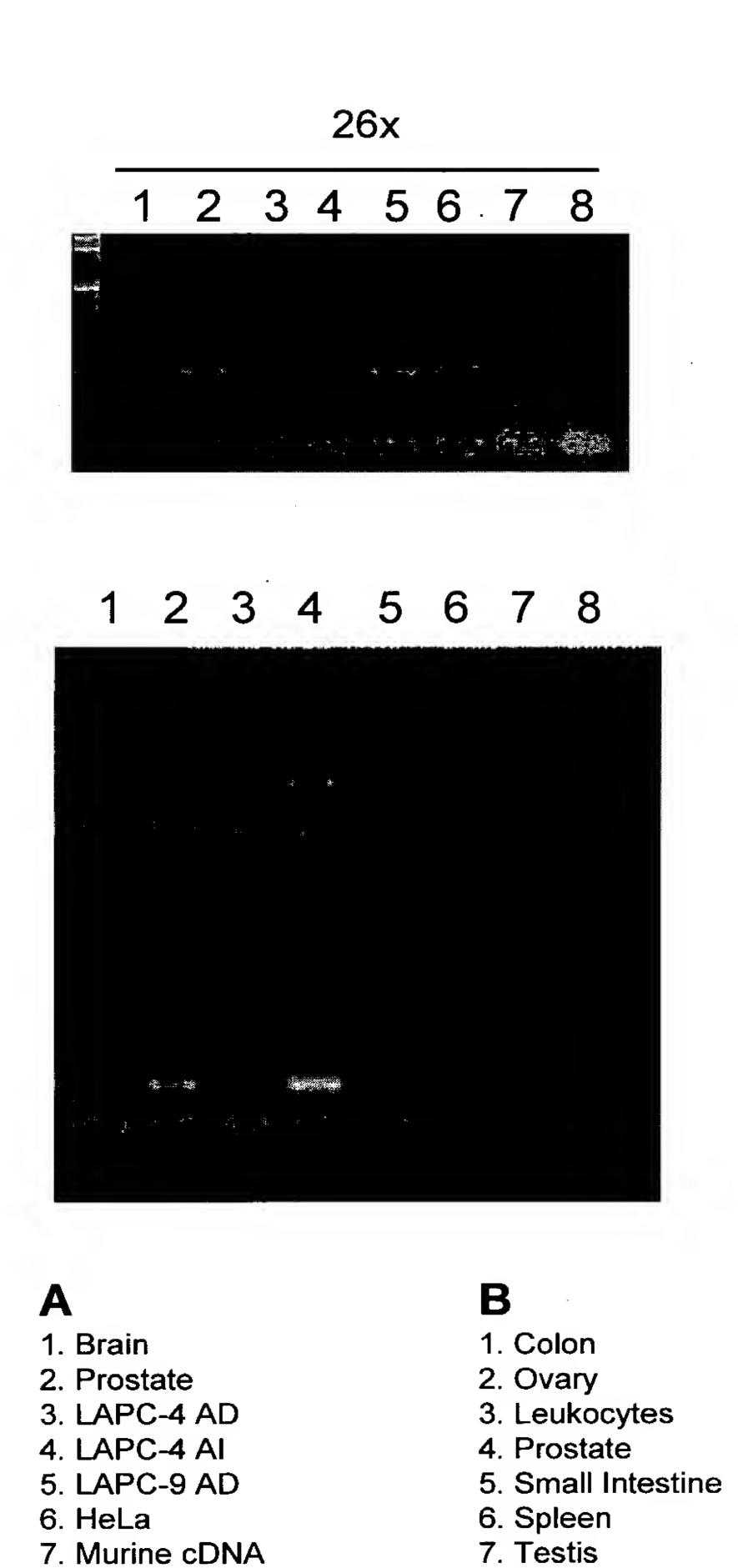
В

- 1. Colon
- 2. Ovary
- 3. Leukocytes
- 4. Prostate
- 5. Small Intestine
- 6. Spleen
- 7. Testis
- 8. Thymus

25x

30x

FIG.14



8. Thymus

8. Neg. control

FIG. 15

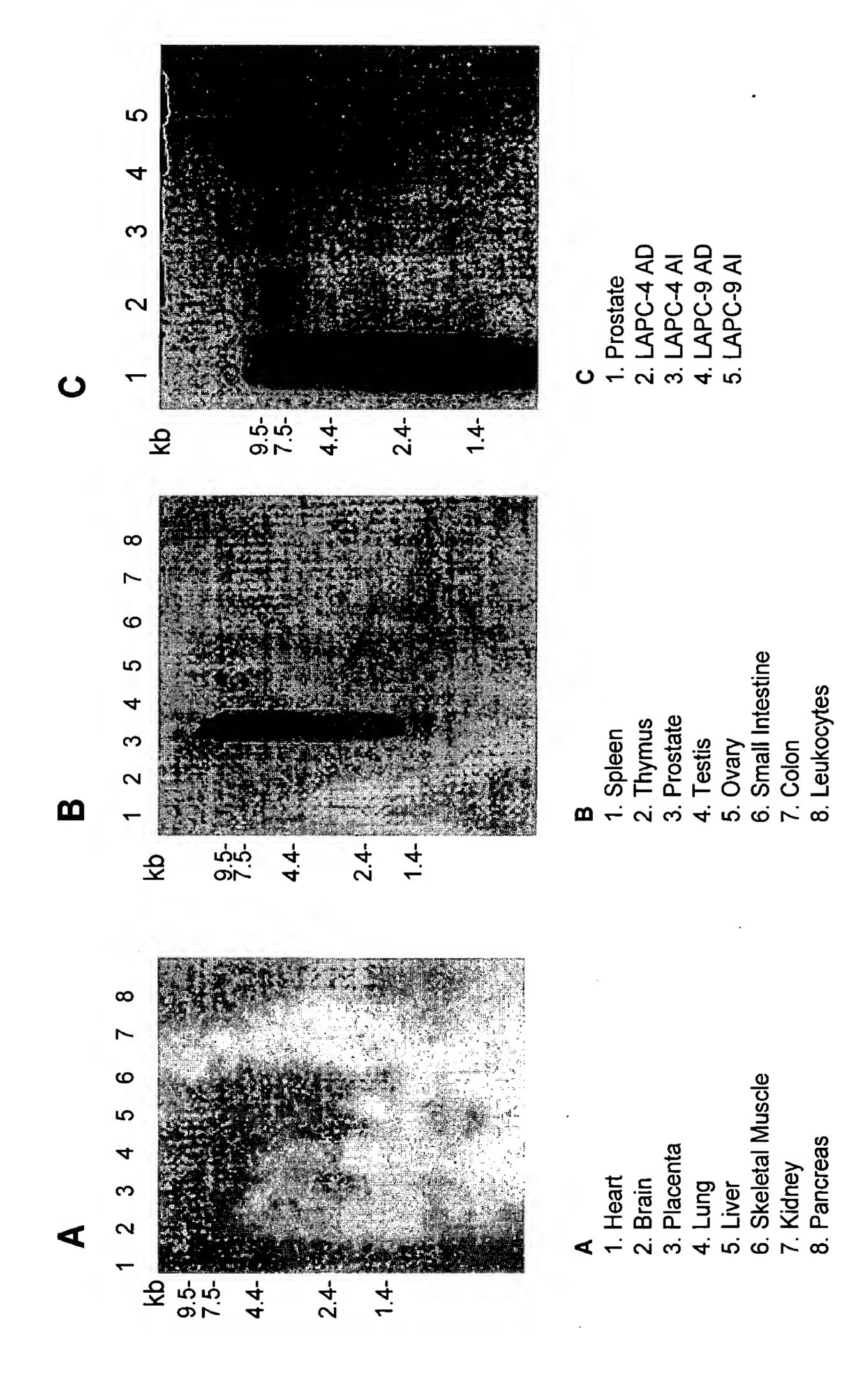


FIG. 16

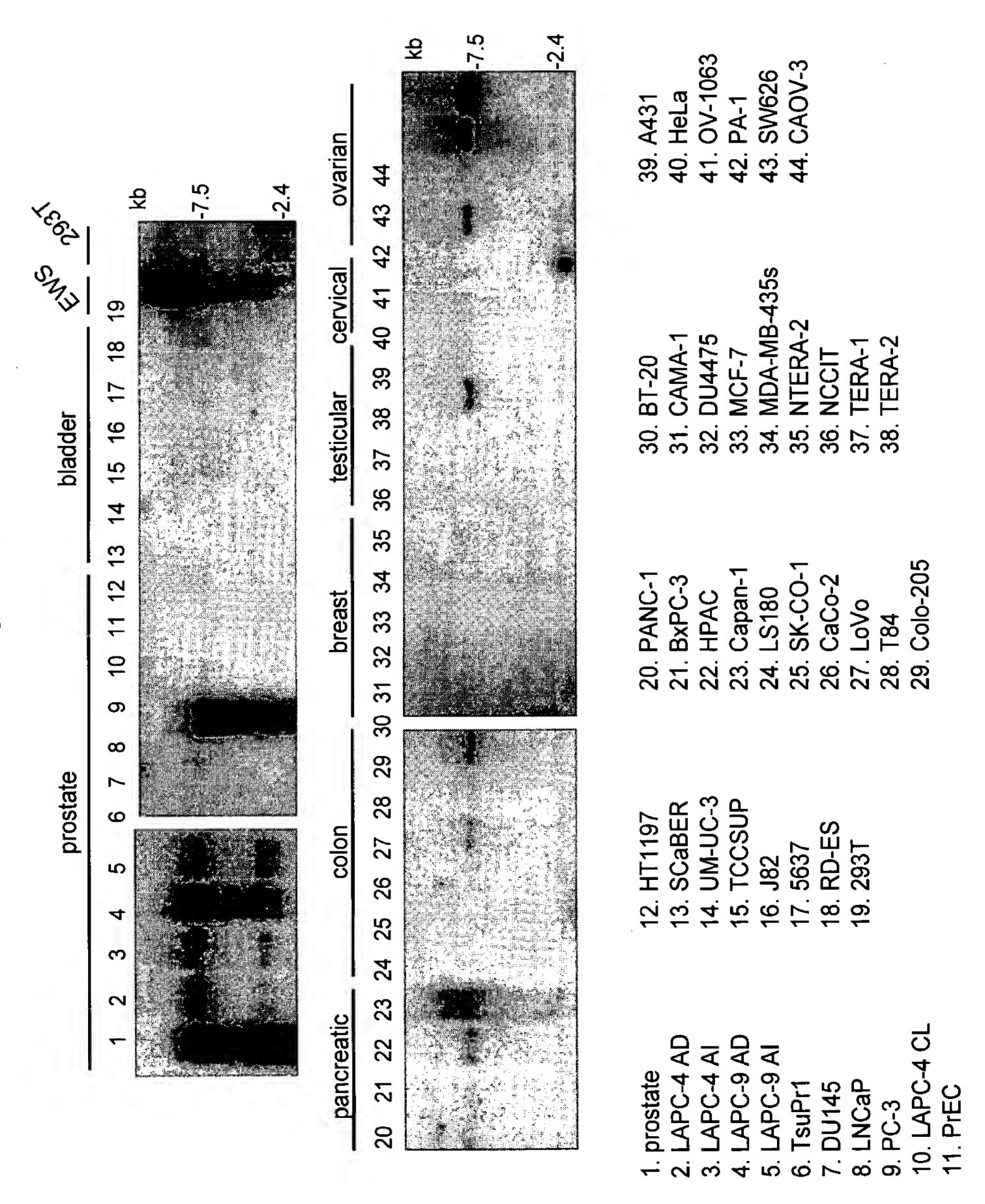


FIG. 17

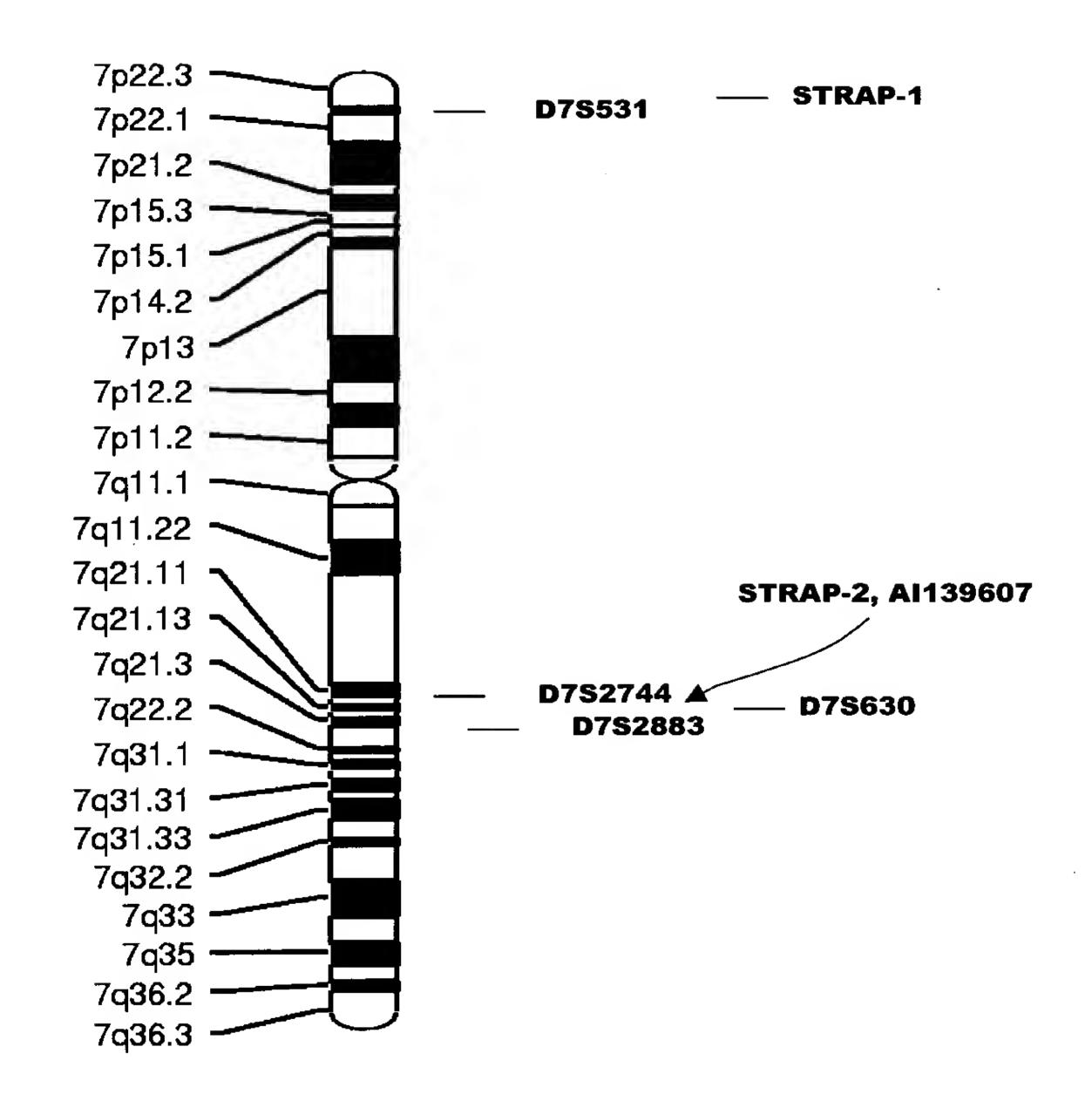
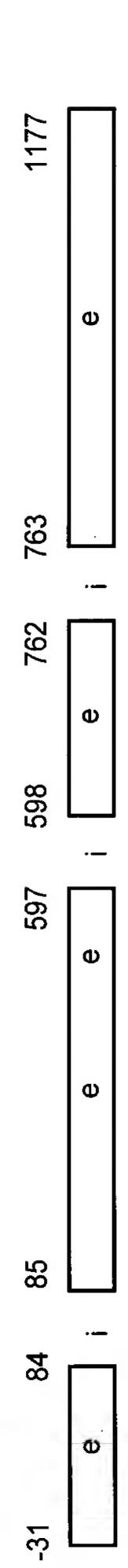


FIG. 18



FG. 19

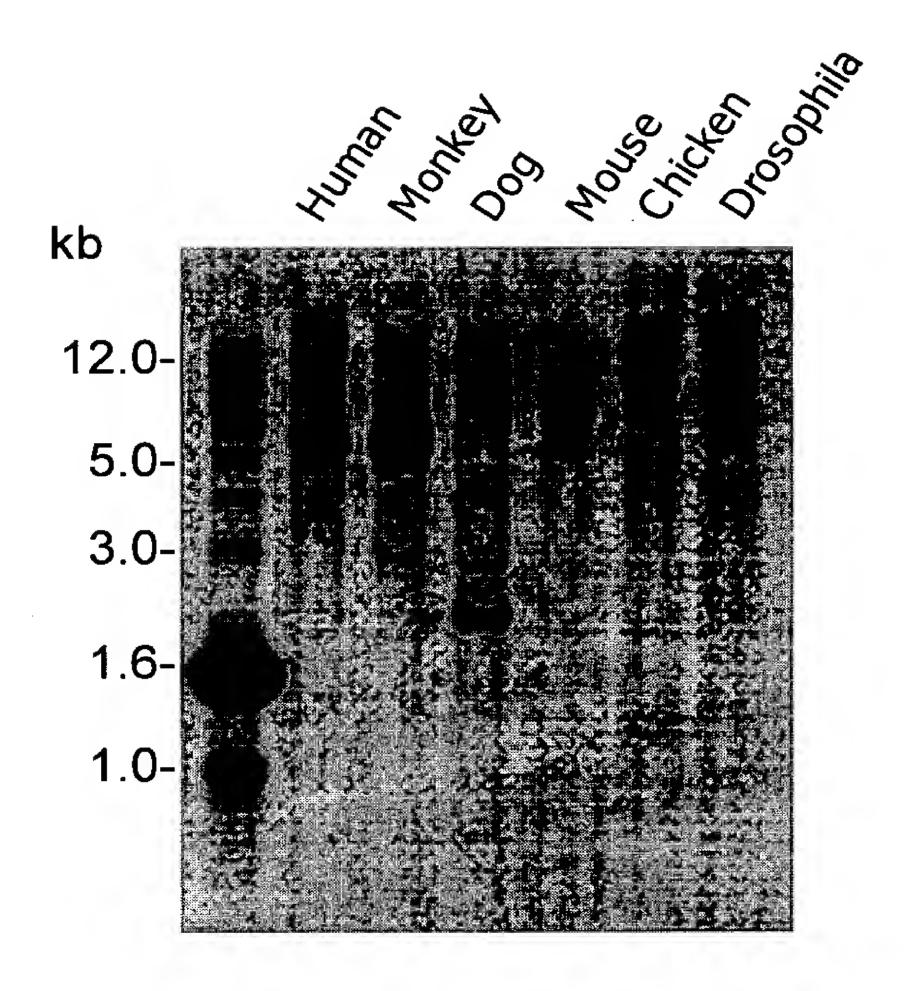
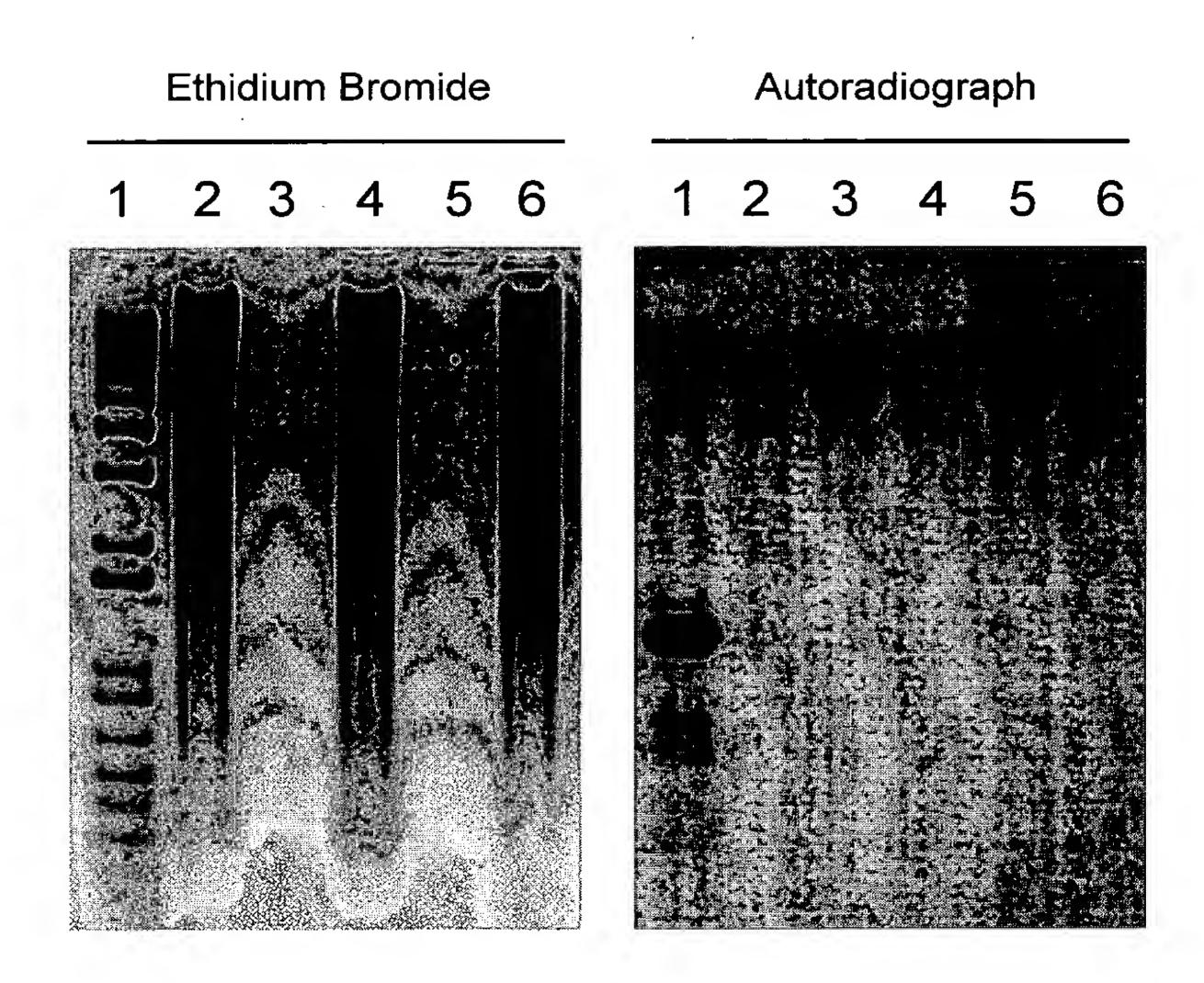


FIG. 20



Lanes

- 1) 1kb ladder
- 2) human female genomic
- 3) 12P11 BAC mus
- 4) human female genomic
- 5) 12P11 BAC mus
- 6) 3T3